

Exhibit 3

S. Abbas Shobeiri, M.D.

1 IN THE UNITED STATES DISTRICT COURT
2 SOUTHERN DISTRICT OF WEST VIRGINIA
3 AT CHARLESTON

4 -----X
5 IN RE: ETHICON, INC., PELVIC Master File No.
6 REPAIR SYSTEM PRODUCTS 2:12-MD-02327
7 LIABILITY LITIGATION MDL 2327
8 -----X

9 THIS DOCUMENT RELATES TO THE JOSEPH R. GOODWIN
10 FOLLOWING CASES IN WAVE 1 OF U.S. DISTRICT JUDGE
11 MDL 200:

12 Dorothy Baugher v. Ethicon, Inc., et al.
13 Civil Action No. 2:12-cv-01053

14 Denise Sacchetti v. Ethicon, Inc., et al.
15 Civil Action No. 2:12-cv-01148
16 Sheri Scholl, et al. v. Ethicon, Inc.
17 Civil Action No. 2:12-cv-00738

18 Lisa Thompson, et al. v. Ethicon, Inc., et al.
19 Civil Action No. 2:12-cv-01199
20 Roberta Warmack, et al. v. Ethicon, Inc., et al
21 Civil Action No. 2:12-cv-1150

22 Rebecca Wheeler, et al. v Ethicon, Inc., et al.
23 Civil Action No. 2:12-cv-01088
24 Thelma Wright v. Ethicon, Inc., et al.
25 Civil Action No. 2:12-cv-01090

26 -----X
27 VIDEOTAPED DEPOSITION OF
28 S. ABBAS SHOBEIRI, M.D.

29 Fairfax, Virginia
30 February 27, 2016

31 Reported by: Denise D. Vickery, CRR/RMR

S. Abbas Shobeiri, M.D.

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<p>1 2 3 February 27, 2016 4 10:06 a.m. 5 6 7 VIDEOTAPED DEPOSITION OF S. ABBAS SHOBEIRI, MD, 8 held at Gathering Room 3 of: 9 10 11 HYATT HOUSE MERRIFIELD 12 8296 Glass Aly 13 Fairfax, VA 22031 14 15 16 17 Pursuant to notice, before Denise D. Vickery, 18 Registered Merit Reporter, Certified Realtime 19 Reporter, and Notary Public in and for the 20 Commonwealth of Virginia. 21 22 23 24</p>	<p>1 INDEX 2 3 EXAMINATION OF S. ABBAS SHOBEIRI, MD PAGE 4 By Mr. Ottaway 6, 166 5 By Ms. Thompson 156, 171 6 7 E X H I B I T S 8 DEFENDANT'S 9 EXHIBIT DESCRIPTION PAGE 10 No. 1 Notice of Deposition 6 11 No. 2 References. 46 12 ETH.MESH.00632022 to 2026 13 ETH.MESH.02180759 to 0761 14 ETH.MESH.03364532 to 4535 15 ETH.MESH.03803462 to 3465 16 ETH.MESH.03928235 17 ETH.MESH.00860239 to 0310 18 ETH.MESH.02340756 to 0828 19 ETH.MESH.02340829 to 0901 20 ETH.MESH.02340902 to 0973 21 No. 3 Clinical Literature Reliance List 104 22 Pages 1 - 84, Pages 1 - 10 23 24 (Exhibits attached to transcript.)</p>
Page 3	Page 5
<p>1 APPEARANCES 2 3 For the MDL Plaintiffs: 4 MOTLEY RICE LLC 5 26 Bridgeside Boulevard 6 Mt. Pleasant, SC 29464 7 512.695.1708 8 BY: MARGARET THOMPSON, ESQ. 9 mthompsonmd@gmail.com 10 11 12 For the Ethicon Defendants: 13 FOLIART HUFF OTTAWAY & BOTTOM 14 Bank of Oklahoma Plaza 15 201 Robert S. Kerr Avenue, 12th Floor 16 Oklahoma City, OK 73102 17 405.232.4633 18 BY: LARRY D. OTTAWAY, ESQ. 19 larryottaway@oklahomacounsel.com 20 BY: AMY SHERRY FISCHER, ESQ. 21 amyfischer@oklahomacounsel.com 22 23 Also Present: 24 Michael Gay, Videographer</p>	<p>1 PROCEEDINGS 2 --- 3 THE VIDEOGRAPHER: We are on the 4 record. The time now is 10:06. 5 This marks the beginning of disk 6 No. 1 for the videotaped deposition 7 testimony of Dr. Abbas Shobeiri in the 8 matter of In re: Ethicon, Inc., Pelvic 9 Repair Systems Products Liability 10 Litigation. 11 This case is pending in the 12 United States District Court for the 13 Southern District of West Virginia at 14 Charleston, MDL No. 2327. 15 Today's date is February 27, 16 2016. This deposition is being conducted 17 at 8296 Glass Aly, Fairfax, Virginia. 18 Will all attorneys present please 19 identify themselves and who they represent. 20 MR. OTTAWAY: Larry Ottaway and 21 Amy Fischer here for Ethicon. 22 MS. THOMPSON: Margaret Thompson 23 here for the MDL Plaintiffs. 24 THE VIDEOGRAPHER: My name is</p>

<p style="text-align: right;">Page 6</p> <p>1 Michael Gay. I'm with Golkow Technologies. 2 Our court reporter today is Denise Vickery, 3 also with Golkow Technologies, and will now 4 swear in our witness. 5 --- 6 S. ABBAS SHOBEIRI, M.D., 7 called for examination, and, after having been 8 duly sworn, was examined and testified as 9 follows: 10 THE VIDEOGRAPHER: You may 11 proceed. 12 EXAMINATION 13 BY MR. OTTOWAY: 14 Q. Would you state your name please for 15 the court and jury? 16 A. Abbas Shobeiri. 17 (Document marked, for 18 identification purposes, as Defendant's 19 Exhibit No. 1.) 20 BY MR. OTTAWAY: 21 Q. Dr. Shobeiri, my name is Larry 22 Ottaway. I represent Ethicon. For purposes of 23 your deposition here today, I've put in front of 24 you a document which I've marked as Defendant's</p>	<p style="text-align: right;">Page 8</p> <p>1 limit my questions to that product. 2 Fair enough? 3 A. Fair. 4 Q. So if I ask you a question, please 5 assume it's related to that. And if it's not, 6 you tell me if you need to wander into another 7 area, and we'll know on the record then that 8 you're referring to that. Okay? 9 A. Yes. 10 Q. Now, you're here today to testify 11 about Ethicon's TVT-O. 12 Have you also spent some time 13 reviewing other, what I'll call, obturator 14 products? 15 A. Yes. 16 Q. Have you written reports regarding 17 other TVT-O type products? 18 MS. THOMPSON: Object to form. 19 BY MR. OTTAWAY: 20 Q. When she does that, Doctor, you can 21 go ahead and answer the question, and it's only 22 if she tells you not to answer a question that 23 we'll have a discussion. 24 Fair enough?</p>
<p style="text-align: right;">Page 7</p> <p>1 Exhibit 1. 2 Have you seen that document before? 3 A. No. First time. 4 Q. Okay. The document asks on roughly 5 page 5 for you to bring documents with you today. 6 Have you brought any documents with 7 you today? 8 A. No. Except for this. 9 Q. May I see what -- 10 A. Sure. 11 Q. -- you brought? 12 A. (Handing document). 13 Q. Doctor, you understand we are here 14 today to take your deposition as an expert for 15 the plaintiffs regarding TVT-O. 16 Is that -- if I say "TVT-O," do you 17 know what I mean? 18 A. Yes. 19 Q. Okay. Can you tell the ladies and 20 gentlemen of the jury what that abbreviation 21 stands for? 22 A. It's tape TVT obturator, 23 tension-free vaginal tape obturator. 24 Q. Okay. And today I'm going to try to</p>	<p style="text-align: right;">Page 9</p> <p>1 A. Fair. 2 Q. Okay. So my question was: Have you 3 written reports about other TVT-O products not 4 manufactured by Ethicon? 5 A. No. 6 Q. Expand that out a bit. 7 Have you written reports of TVT 8 products not of Ethicon's manufacture? 9 MS. THOMPSON: Object to form. 10 THE WITNESS: No. 11 BY MR. OTTAWAY: 12 Q. No. Okay. 13 Have you testified before about TVT 14 products generally? 15 MS. THOMPSON: Object to form. 16 THE WITNESS: What do you mean by 17 "TVT products"? 18 BY MR. OTTAWAY: 19 Q. Transvaginal tape or mesh products. 20 A. So you just changed question. 21 Or mesh? 22 Q. Transvaginal tape or mesh. 23 A. So vaginal mesh? 24 Q. Yes.</p>

<p style="text-align: right;">Page 10</p> <p>1 A. Yes.</p> <p>2 Q. Okay. And have that -- that</p> <p>3 testimony been against or, no, relating to</p> <p>4 products manufactured by Ethicon and other</p> <p>5 manufacturers?</p> <p>6 A. Other manufacturers.</p> <p>7 Q. Okay. Would those other</p> <p>8 manufacturers include Boston Scientific?</p> <p>9 A. I believe so.</p> <p>10 Q. Bard?</p> <p>11 A. I believe so.</p> <p>12 Q. American Medical Systems?</p> <p>13 A. I don't recall, but probably.</p> <p>14 Q. Okay. Have you ever rendered an</p> <p>15 opinion in any of those cases that the products</p> <p>16 were safe and effective?</p> <p>17 A. The vaginal mesh?</p> <p>18 Q. Yes.</p> <p>19 A. So you're asking me if I rendered an</p> <p>20 opinion that vaginal mesh was safe and effective?</p> <p>21 Q. Yes.</p> <p>22 A. No.</p> <p>23 Q. Okay. Do other manufacturers make</p> <p>24 products similar to TVT-O, the product made by</p>	<p style="text-align: right;">Page 12</p> <p>1 A. So could you be specific on which</p> <p>2 mesh products you're talking about?</p> <p>3 Q. Well, let's talk about mid-urethral</p> <p>4 slings.</p> <p>5 A. Okay.</p> <p>6 Q. And then the -- you knew what I</p> <p>7 meant when I said TVT-O, the Ethicon product;</p> <p>8 correct?</p> <p>9 A. Okay.</p> <p>10 Q. Tell me about how those differ in</p> <p>11 the way they are implanted.</p> <p>12 A. So you want me to tell the</p> <p>13 difference between TVT-O and mid-urethral slings?</p> <p>14 Q. Yes.</p> <p>15 A. Do you have a specific mid-urethral</p> <p>16 slings that you want to --</p> <p>17 Q. No. You can pick any one you want.</p> <p>18 A. So I'm just trying to think which</p> <p>19 one. So you want to compare it to TVT?</p> <p>20 Q. Sure. If that's --</p> <p>21 A. All right. So TVT is a retropubic</p> <p>22 sling and TVT-O is an inside-out transobturator</p> <p>23 sling.</p> <p>24 Q. So the difference in your mind</p>
<p style="text-align: right;">Page 11</p> <p>1 Ethicon?</p> <p>2 A. Could you expand on that?</p> <p>3 Q. Well, I'll try, and please</p> <p>4 understand, Doctor, I'm not a physician. So</p> <p>5 you're going to have to give me the benefit of</p> <p>6 the doubt when I ask some questions because I may</p> <p>7 not know the terminology that you use.</p> <p>8 Fair enough?</p> <p>9 Tell me how you understand the TVT-O</p> <p>10 product line differs from other transvaginal</p> <p>11 meshes.</p> <p>12 A. So you're mixing up terminology now.</p> <p>13 So that's confusing me because you're --</p> <p>14 Q. I don't want to confuse you. I want</p> <p>15 you to tell me what terminology you wish to use.</p> <p>16 A. Well, you just said compare TVT-O to</p> <p>17 vaginal meshes; right? So vaginal mesh is</p> <p>18 produced to go under the bladder or the rectum,</p> <p>19 and the TVT-O is a sling.</p> <p>20 Q. Okay. And do they differ in the way</p> <p>21 they are implanted?</p> <p>22 A. Some are.</p> <p>23 Q. Okay. Tell me in your terminology</p> <p>24 how those differ.</p>	<p style="text-align: right;">Page 13</p> <p>1 between the two is the way they are implanted;</p> <p>2 one is retropubic and the other is</p> <p>3 transobturator?</p> <p>4 MS. THOMPSON: Object to form.</p> <p>5 THE WITNESS: The path they take.</p> <p>6 BY MR. OTTAWAY:</p> <p>7 Q. The path they take. Fair enough.</p> <p>8 And can you explain to the ladies</p> <p>9 and gentlemen of the jury the difference in the</p> <p>10 path surgically that's taken between those two</p> <p>11 types of devices?</p> <p>12 A. Yes. The retropubic slings go</p> <p>13 behind the pubic bone and then come out above the</p> <p>14 pubic area, and the transobturator inside-out</p> <p>15 slings go through the vagina and come through the</p> <p>16 obturator -- obturator space and come through the</p> <p>17 inner thigh.</p> <p>18 Q. Okay. Now, you refer to the</p> <p>19 transobturator inside-out.</p> <p>20 A. Uh-huh.</p> <p>21 Q. Is that --</p> <p>22 A. Yes.</p> <p>23 Q. -- the type we're talking about here</p> <p>24 today?</p>

<p style="text-align: right;">Page 14</p> <p>1 A. We are talking about the TVT-O 2 product. 3 Q. Right. Which is an inside-out -- 4 A. Yes. 5 Q. -- surgical technique? 6 A. Yes. 7 Q. Are there other transobturators 8 products which are inside-out? 9 A. Slings? 10 Q. Yes. 11 A. Not exactly the same, but there are 12 -- there are some other ones. 13 Q. And can you give me a list of the 14 ones you have in your mind when you say that? 15 A. So, for example, the TVT-Secur. 16 Q. Okay. 17 A. You know, and the variation of the 18 TVT-O, which is the sort of next generation -- 19 generation preview. Those are some. 20 Q. Now, is there also an outside-in 21 transobturators sling? 22 A. Yes. 23 Q. And who manufactures that product? 24 A. Boston Scientific. Mainly everybody</p>	<p style="text-align: right;">Page 16</p> <p>1 in fact, are defective? 2 A. You mean do I have an opinion about 3 it? 4 Q. Yes. Do you have an opinion about 5 it? 6 A. They have their own set of problems. 7 Q. I'm not sure that was an answer to 8 my question, Doctor. 9 A. Uh-huh. 10 Q. Do you have an opinion that they are 11 defective? 12 A. Could you define "defective"? 13 Q. Any way you want to use it. In your 14 own terminology. 15 A. So would I be using transobturators 16 tapes? Is that what you're asking or -- 17 Q. Sure. Go ahead if you want to 18 answer it that way. 19 A. I think that generally we try to 20 restrict ourselves to the retropubic TVT type 21 products. 22 Q. Okay. So in your practice, you 23 don't use any transobturators products, whether 24 it's inside-out or outside-in.</p>
<p style="text-align: right;">Page 15</p> <p>1 pretty much. Bard. 2 Q. Okay. Do you have an opinion about 3 whether the outside-in transobturators products 4 are safe and effective? 5 MS. THOMPSON: Object to form. 6 THE WITNESS: Could you narrow 7 down your question? It's very broad. 8 BY MR. OTTAWAY: 9 Q. Well, I'm not sure I can. 10 A. Uh-huh. 11 Q. Do you believe that transobturators 12 products that use the outside-in implantation 13 technique are safe and effective? 14 MS. THOMPSON: Object to form, 15 and it's the combination of the "safe and 16 effective" in the same -- in the same. 17 BY MR. OTTAWAY: 18 Q. You can divide that up if you want. 19 Do you believe they are safe? 20 A. They have their own set of problems. 21 Q. Have you ever testified that they 22 are safe? 23 A. Not that I remember. 24 Q. Have you held the opinion that they,</p>	<p style="text-align: right;">Page 17</p> <p>1 Fair statement? 2 A. Well, I used to use TVT-O, but 3 patients had problems and I stopped it. And I 4 used to use the transobturators tapes, and 5 patients had problems and I stopped it. 6 Q. So the answer to my question is: 7 You do not use any transobturators product now? 8 A. No, because the patients have 9 problems. 10 Q. Okay. Doctor, I appreciate and I'm 11 not trying to limit your answers, but if you 12 would answer my question, this would go quicker. 13 A. Uh-huh. 14 Q. Fair enough? 15 A. Fair. 16 Q. Okay. When did you stop using 17 transobturators products, whether of the 18 inside-out surgical technique or outside-in 19 technique? 20 A. The -- we used the transobturators 21 tapes -- I used the transobturators tapes when 22 they initially came out, and for me they had, you 23 know, issue with mesh erosion, which I didn't 24 like. So we went to -- I went to TVT-O and that</p>

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1 had its own complications, and we didn't like it.
 2 So in terms of when we stopped it, I
 3 probably stopped using TOTs -- I'm just going by
 4 memory -- probably about five -- five years ago
 5 or so, and I may have used TVT-O for about three
 6 years or so before I stopped that.
 7 Q. When did the transobturator products
 8 come on the market; do you remember?
 9 MS. THOMPSON: Object to form.
 10 THE WITNESS: Hmm. Well, they
 11 have been on the market probably as early
 12 as 2000s, somewhere about that.
 13 BY MR. OTTAWAY:
 14 Q. And as I understood your testimony,
 15 you said you stopped using them in 2011 or so?
 16 A. Well, I switched to the TVT-O at
 17 that point.
 18 Q. Okay.
 19 A. Yeah.
 20 Q. And how long did you use TVT-O after
 21 2011 before you stopped using it?
 22 A. Hmm. Probably about a few years,
 23 three, four years.
 24 Q. So maybe 2013 or '14?

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1 A. No, no. We -- I think I -- so it
 2 was sequential where we were -- where -- where I
 3 was using TOTs probably up to 2010 or so and then
 4 switched to TVT-O for a few years.
 5 Q. Again, so if you stopped using the
 6 others and started using TVT-O by Ethicon in 2010
 7 and used it for a couple of years, would your
 8 testimony and best recollection be that you used
 9 the TVT-O product up until about 2012 or '13?
 10 A. That's probably true.
 11 Q. All right.
 12 A. Let me see. It's 2016 now. Yeah.
 13 Q. Fair?
 14 A. Fair.
 15 Q. Okay. And during the period of time
 16 you used transobturator products in general --
 17 A. Uh-huh.
 18 Q. -- how many implants did you
 19 perform?
 20 A. So we are talking about the TVT-O?
 21 Q. Any of the transobturator products,
 22 and then I'll narrow it to TVT-O.
 23 MS. THOMPSON: And the
 24 transobturator products? Slings?

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1 MR. OTTAWAY: Yes.
 2 MS. THOMPSON: Okay.
 3 MR. OTTAWAY: Yes, and I think
 4 the doctor knows that's what I'm referring
 5 to. I asked him at the beginning of the
 6 deposition to limit his testimony to the
 7 TVT-O sling.
 8 THE WITNESS: Well, actually, I
 9 was thinking about the same thing.
 10 BY MR. OTTAWAY:
 11 Q. Good. Okay.
 12 A. So, yeah, we still use the trans- --
 13 I use the transobturator tapes infrequently.
 14 Mainly use it in patients that I felt like they
 15 may have had retropubic scarring or prior
 16 surgeries where using the TVT would increase
 17 their risk of bladder injury.
 18 So I cannot give you a number in
 19 terms of. I would say the transobturator tapes
 20 are probably more than 50. Is that fair?
 21 Q. I'm having to rely on you, Doctor,
 22 and your memory.
 23 So somewhere around 50 you think?
 24 A. 50? It's probably fair to say more

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1 than 50.
 2 Q. More than 50. Okay.
 3 And of the 50, how many were TVT-O?
 4 A. Well, these were just probably TOTs.
 5 So then -- then I switched to TVT-O.
 6 Q. Okay. And how many TVT-O procedures
 7 did you perform?
 8 A. Probably more than 30.
 9 Q. So roughly 50 and roughly 30, about
 10 80 total?
 11 A. I'm guessing. Could be more.
 12 Q. Give me the parameters, Doctor. I
 13 just -- I'm not trying to hold you to specific
 14 number.
 15 A. Uh-huh.
 16 Q. I just want to know roughly your
 17 best guess.
 18 A. Hmm. I think it's fair to say I
 19 have performed -- I performed more than 50 TOTs,
 20 and it's fair to say that I performed more than
 21 30, upwards of 50 TVT-Os.
 22 Q. Okay. So that would take you
 23 somewhere up around a hundred total?
 24 A. It's a good guess.

<p style="text-align: right;">Page 22</p> <p>1 Q. All right. Now, you stopped using 2 the TVT-O in 2012 or '13, roughly. 3 A. Uh-huh. 4 Q. Did the product remain on the market 5 and available to surgeons after you stopped using 6 it? 7 A. I believe so. 8 Q. In 2012 or 2013, as I recall your 9 resumé, you were at the -- in Oklahoma at an 10 institution, were you not? 11 A. True. 12 Q. What institution was that? 13 A. At the University of Oklahoma. 14 Q. And at the University of Oklahoma, 15 were there other physicians in your profession 16 and specialty that continued using TVT-O after 17 you stopped using it? 18 A. Hmm. Actually, my partners at the 19 university had reservations using TVT-O. So they 20 never actually used TVT-O, and they are not using 21 TVT right now. 22 Q. Okay. So it's your testimony that 23 your partners at OU are not using TVT-O? 24 A. They may have picked it up since</p>	<p style="text-align: right;">Page 24</p> <p>1 Washington, DC area? 2 A. Northern Virginia. 3 Q. Okay. 4 A. I'm at the Inova Health Care. 5 Q. Okay. Tell me about Inova. What is 6 Inova and your job with Inova? 7 A. Inova is a mile down the road from 8 here. When you drive down, you can see one of 9 their hospitals. It's a hospital system with 10 five, six hospitals serving Northern Virginia. 11 It's the Northern Virginia campus for Virginia 12 Commonwealth University. 13 So I'm a professor of OB-GYN for 14 Virginia Commonwealth University. I'm a 15 professor of OB-GYN at George Washington 16 University. I'm a professor of OB-GYN at OU 17 still, and I'm a professor of cellular biology 18 and anatomy at OU still. 19 Q. And does the Inova Hospital chain 20 that you've described have physicians in your 21 specialty who use TVT-O? 22 A. No. 23 Q. Okay. Does the University of 24 Virginia Commonwealth have a hospital associated</p>
<p style="text-align: right;">Page 23</p> <p>1 then, but they were not using it before and I 2 doubt that they're using it now. 3 Q. Okay. How about people outside your 4 association partnership? 5 A. Uh-huh. 6 Q. In Oklahoma, were surgeons in your 7 specialty using TVT-O in Oklahoma while you were 8 there and after you stopped using it? 9 A. Yeah, I'm sure they were because 10 we're getting a lot of their complications and 11 that was. So I know that Ethicon was heavily 12 marketing it, and they -- they were using it in 13 the community. 14 Q. Okay. 15 A. We were getting the complications. 16 Q. And you left Oklahoma when? 17 A. In 2015. 18 Q. Okay. And where did you alight 19 after you left Oklahoma? 20 A. Pardon me? 21 Q. Where did you end up after you left 22 Oklahoma? 23 A. Here. 24 Q. And we're talking about here in the</p>	<p style="text-align: right;">Page 25</p> <p>1 with it? 2 A. I'm not aware of that. 3 Q. Don't know one way or the other? 4 A. It's in Richmond. I haven't been 5 down there. 6 Q. Okay. And is TVT-O a product that 7 is available to surgeons to use in the Inova 8 Hospital chain? 9 A. I know at Inova Fairfax Hospital 10 where we are it's not. 11 Q. Okay. Are you aware of the other 12 hospitals in the Inova chain? 13 A. I have not seen it on our 14 inventory -- inventory. 15 Q. Okay. In the teaching situation 16 where you are, do you teach medical students 17 residents or fellows the surgical technique for 18 implanting transobturator devices? 19 A. And what's the question? 20 MR. OTTAWAY: Can you read that 21 one back to him? I don't know that I can 22 ask it any better. 23 (The reporter read the record on 24 page 25 lines 15-18.)</p>

<p style="text-align: right;">Page 26</p> <p>1 MS. THOMPSON: I'm going to</p> <p>2 object to the form on that. Sorry I didn't</p> <p>3 hit it the first time.</p> <p>4 THE WITNESS: I'm not doing them,</p> <p>5 so I cannot teach them. But, again, I may</p> <p>6 elect to do one if there's a patient who,</p> <p>7 for example, has had severe retropubic</p> <p>8 scarring, ureteric implantation, cancer</p> <p>9 radiation in that area where I think it's</p> <p>10 the last choice that I have.</p> <p>11 BY MR. OTTAWAY:</p> <p>12 Q. Are there -- are the students at the</p> <p>13 Virginia Commonwealth Medical School taught how</p> <p>14 to implant transobturator devices, whether by you</p> <p>15 or someone else?</p> <p>16 A. Medical students are observers. So</p> <p>17 we don't teach medical students how to implant</p> <p>18 any devices.</p> <p>19 Q. Okay. Where do they learn that if</p> <p>20 they don't learn it from you?</p> <p>21 A. They choose to do residency in</p> <p>22 OB-GYN or urology, and then they learn it during</p> <p>23 their residency.</p> <p>24 Q. Okay. So do I understand then that</p>	<p style="text-align: right;">Page 28</p> <p>1 A. Uh-huh. It's very different with</p> <p>2 TVT-O.</p> <p>3 Q. Okay. And you tell me the</p> <p>4 difference that you perceive in the two.</p> <p>5 A. They take different paths.</p> <p>6 Q. Okay.</p> <p>7 A. The path for the TVT-O is inside-out</p> <p>8 and the TOT is outside-in.</p> <p>9 Q. Okay.</p> <p>10 A. So they are different devices.</p> <p>11 Q. And do you -- do you prefer one over</p> <p>12 the other?</p> <p>13 A. Well, I'm really not doing TVT-Os.</p> <p>14 TVT-Os at Fairfax are available on the shelf, and</p> <p>15 people are using it very sparingly.</p> <p>16 Q. Okay. How about TOTs?</p> <p>17 A. That's what I'm talking about, the</p> <p>18 TOTs. There are no TVT-Os on the shelf --</p> <p>19 Q. Okay.</p> <p>20 A. -- at Fairfax.</p> <p>21 Q. I think we spoke over each other</p> <p>22 there because I thought you said TVT-O was</p> <p>23 available.</p> <p>24 But what you were saying was TOT,</p>
<p style="text-align: right;">Page 27</p> <p>1 residents in your specialty learn how to implant</p> <p>2 transobturator devices while at your institution?</p> <p>3 MS. THOMPSON: Object to form.</p> <p>4 THE WITNESS: No, they learn how</p> <p>5 to do retropubic devices.</p> <p>6 BY MR. OTTAWAY:</p> <p>7 Q. Okay. And retropubic devices only?</p> <p>8 A. As I said, they -- there may be a</p> <p>9 few transobturators a year for whatever extreme</p> <p>10 situation, but it's not the norm.</p> <p>11 Q. If your institution doesn't have</p> <p>12 available to it TVT-O, how would you get it if</p> <p>13 you decided you wanted to use it for a particular</p> <p>14 patient?</p> <p>15 A. We won't.</p> <p>16 Q. Sorry?</p> <p>17 A. So you need to be clear with your</p> <p>18 terminology. Are you using TOT and TVT-O</p> <p>19 interchangeably?</p> <p>20 Q. Okay. You tell me. I don't want to</p> <p>21 use things interchangeably that are confusing.</p> <p>22 So you tell me.</p> <p>23 A. So --</p> <p>24 Q. Transobturator tape.</p>	<p style="text-align: right;">Page 29</p> <p>1 that is the outside-in, is but TVT-O, the</p> <p>2 inside-out, is not?</p> <p>3 A. I think the question you asked me</p> <p>4 earlier was whether there's TVT available at</p> <p>5 Fairfax. I said no. And you said is it</p> <p>6 available anywhere on the system, and I say I</p> <p>7 have not seen it on the inventory.</p> <p>8 Q. Okay. And how about TOT then?</p> <p>9 A. And what I answered was that TOT is</p> <p>10 on the shelf, and we are using it very sparingly.</p> <p>11 Q. Okay. Let me ask you a few</p> <p>12 questions, Doctor.</p> <p>13 Do you hold any patents in medical</p> <p>14 devices?</p> <p>15 A. No.</p> <p>16 Q. Have you ever designed a medical</p> <p>17 device for surgical implantation?</p> <p>18 A. I have, but we have never -- I have</p> <p>19 never gone down to really patent them.</p> <p>20 Q. Okay. Tell me about the device you</p> <p>21 designed.</p> <p>22 A. Well, we didn't patent it but -- and</p> <p>23 we didn't use it surgically. So, for example,</p> <p>24 devising Q-tips used for measurement of POP-Q.</p>

<p style="text-align: right;">Page 30</p> <p>1 Devising retractors to help during</p> <p>2 sacrocolpopexies, you know.</p> <p>3 Q. Okay. But those have not been used?</p> <p>4 A. Quite honestly, those are the things</p> <p>5 I devised and by the time that I decided it would</p> <p>6 be a good time to patent them, they -- somebody</p> <p>7 else beat them to the market.</p> <p>8 Q. Have you ever designed a</p> <p>9 mid-urethral sling?</p> <p>10 A. Have I ever designed a mid-urethral</p> <p>11 sling? Well, we -- we create -- I created</p> <p>12 ultrasound Phantoms, and we did cut like sling</p> <p>13 tapes that we implanted into the Phantoms.</p> <p>14 Q. Okay. Well, I'm going to get into</p> <p>15 your ultrasound opinions here in a minute, but</p> <p>16 right now I'm asking: Did you ever design for</p> <p>17 use in a patient a mid-urethral sling?</p> <p>18 A. Well, are you talking about a</p> <p>19 synthetic sling?</p> <p>20 Q. Sure.</p> <p>21 A. No, I have not designed a synthetic</p> <p>22 sling that has gone to the market.</p> <p>23 Q. Okay. And have you ever designed a</p> <p>24 device which has been implanted into a patient</p>	<p style="text-align: right;">Page 32</p> <p>1 Q. Well, obviously I don't want you to</p> <p>2 violate a confidentiality agreement.</p> <p>3 A. Uh-huh.</p> <p>4 Q. But you're going to have to give me</p> <p>5 some idea for whom, when, what in general was</p> <p>6 involved.</p> <p>7 A. Hmm. AMS.</p> <p>8 Q. Okay. Tell me about what you did</p> <p>9 for AMS in general.</p> <p>10 MS. THOMPSON: Only to the extent</p> <p>11 that you can under your agreement.</p> <p>12 THE WITNESS: Well, we trialed</p> <p>13 the -- we trialed TOPAS.</p> <p>14 BY MR. OTTAWAY:</p> <p>15 Q. Trialed? I'm sorry. Trialed TOPAS?</p> <p>16 A. Uh-huh. T-O-P-A -- is it S or Z? I</p> <p>17 don't know. I think that's it.</p> <p>18 Q. Okay. And what is TOPAS?</p> <p>19 A. It's a fecal incontinence product.</p> <p>20 Q. And does it involve any kind of</p> <p>21 synthetic mesh?</p> <p>22 A. Yes.</p> <p>23 Q. Okay. What kind of mesh product is</p> <p>24 used in TOPAS that you were involved with?</p>
<p style="text-align: right;">Page 31</p> <p>1 that has been approved or vetted by the FDA?</p> <p>2 A. No.</p> <p>3 Q. Are you an expert in FDA regulatory</p> <p>4 matters?</p> <p>5 A. I know a lot about FDA regulatory</p> <p>6 matters.</p> <p>7 Q. My question was: Do you consider</p> <p>8 yourself an expert in FDA regulatory issues?</p> <p>9 A. Could you define "expert"?</p> <p>10 Q. You -- you're the one that mentioned</p> <p>11 it. I'm just asking you if you consider yourself</p> <p>12 to be an expert in FDA regulatory matters.</p> <p>13 A. I know more than a lot of other</p> <p>14 people.</p> <p>15 Q. Okay. Have you worked -- been hired</p> <p>16 by the FDA to work on regulatory issues?</p> <p>17 A. No.</p> <p>18 Q. Have you ever worked with a device</p> <p>19 manufacturer to gain FDA approval for a medical</p> <p>20 device?</p> <p>21 A. Yes.</p> <p>22 Q. Okay. Tell me about that.</p> <p>23 A. I'm not sure if I can because we</p> <p>24 signed confidentiality agreement.</p>	<p style="text-align: right;">Page 33</p> <p>1 A. Well, we -- it was their -- their</p> <p>2 version of polypropylene.</p> <p>3 Q. And how is it -- how does it differ</p> <p>4 from a polypropylene used in TVT-O if you know?</p> <p>5 A. It's just the way it's woven is</p> <p>6 probably different.</p> <p>7 Q. Okay. And tell me how the way it is</p> <p>8 woven is different than TVT.</p> <p>9 A. So, for example, TVT-O when you</p> <p>10 implant it and it frays and the little pieces of</p> <p>11 mesh come undone, you can actually see it on your</p> <p>12 hand. That is, when you pull the sheet out, the</p> <p>13 sling rolls into sort of tubular structure and,</p> <p>14 you know, just as it gets stretched, the -- the</p> <p>15 holes in the mesh are not as the size that they</p> <p>16 were designed. So -- so it's just different.</p> <p>17 Q. Okay. And, again, how is it</p> <p>18 different? I'm -- I'm -- is it --</p> <p>19 A. So the TVT-O when you insert it,</p> <p>20 when you take the plastic sheet out, you know, it</p> <p>21 frays. The little piece of mesh can come on your</p> <p>22 hand and then it can also roll, and also it</p> <p>23 stretches where the holes that are there sort of</p> <p>24 become smaller.</p>

<p style="text-align: right;">Page 34</p> <p>1 Q. Right. You told me that, but I want 2 to know how the polypropylene used in TOPAS 3 differs from the polypropylene used in TVT-O. 4 A. It's just different design. 5 Q. Okay. And how is the design 6 different? 7 A. The -- the weave is different. 8 Q. Okay. Weave. 9 A. Uh-huh. 10 Q. Anything else? 11 A. I think that's mostly what 12 differentiates them, and also the -- just the way 13 it designed. It's not -- doesn't stretch like 14 TVT-O. 15 Q. Okay. So its application is 16 different? 17 A. No. It's just woven differently, so 18 it wouldn't be as stretchy. 19 Q. Does it differ -- differ in chemical 20 property? 21 MS. THOMPSON: Object to form. 22 THE WITNESS: The chemical 23 property. The polypropylene? When you say 24 "chemical property," like is it like made</p>	<p style="text-align: right;">Page 36</p> <p>1 page 35 lines 16-19.) 2 THE WITNESS: I haven't looked at 3 their final material but, I mean, we did 4 their anatomical studies. 5 BY MR. OTTAWAY: 6 Q. Okay. So is the answer to my 7 question you have or have not prepared written 8 materials that will go with the product if it is 9 released to the market? 10 A. I gave them reports. So what they 11 are using, it is their prerogative. 12 Q. Okay. Well, for example, have you 13 ever prepared a warning or IFU that would 14 accompany a device -- 15 A. No. 16 Q. -- on the market? No? 17 A. No. 18 Q. Okay. Did you do that for or were 19 you asked to do that by AMS for TOPAS? 20 MS. THOMPSON: Object to form. 21 THE WITNESS: No. 22 Thanks. 23 BY MR. OTTAWAY: 24 Q. Have you ever written a warning for</p>
<p style="text-align: right;">Page 35</p> <p>1 differently or -- 2 BY MR. OTTAWAY: 3 Q. Yes. 4 A. -- what do you mean? 5 So, no, it's polypropylene and it's 6 just woven differently. 7 Q. All right. Is TOPAS on the market? 8 A. It -- well, it has gone through its 9 FDA trial, and I believe it just got a hearing 10 recently. 11 Q. Okay. What exactly was your role in 12 the trial for TOPAS mesh? 13 A. I studied the anatomical course of 14 the sling, both in cadavers and in live patients, 15 with ultrasound, and we did the trials. 16 Q. Okay. Were you involved in 17 preparing any written materials that were to 18 accompany or are to accompany TOPAS if it's 19 released to the market? 20 A. Could you repeat that question? 21 MR. OTTAWAY: Can you read that 22 back to him again? I'm not sure I can ask 23 it any better. 24 (The reporter read the record on</p>	<p style="text-align: right;">Page 37</p> <p>1 any product? 2 MS. THOMPSON: Object to form. 3 THE WITNESS: Have I ever written 4 a warning for any products? No. 5 BY MR. OTTAWAY: 6 Q. Have you ever had any special 7 education about warnings and how they should be 8 written? 9 MS. THOMPSON: Object to form. 10 THE WITNESS: Well, I have read a 11 lot of IFUs and in medical school we, you 12 know, we learn about these things. 13 BY MR. OTTAWAY: 14 Q. Well, other than your medical school 15 training and reading IFUs, have you had any 16 specialized training in the preparation or 17 dissemination of warnings? 18 A. Could you expand on that? 19 Q. Not really. 20 A. Uh-huh. 21 MR. OTTAWAY: You want to ask it? 22 Read the question again. 23 (The reporter read the record on 24 page 37 lines 14-17.)</p>

<p style="text-align: right;">Page 38</p> <p>1 MS. THOMPSON: Object to form.</p> <p>2 THE WITNESS: So like have I gone</p> <p>3 to law school or --</p> <p>4 BY MR. OTTAWAY:</p> <p>5 Q. I know you haven't been to law</p> <p>6 school because I've read your resumé.</p> <p>7 A. Uh-huh.</p> <p>8 Q. My question stands as asked. Can</p> <p>9 you answer it?</p> <p>10 A. Besides the training I have had, I</p> <p>11 have not had any other training.</p> <p>12 Q. So confined to what you learned in</p> <p>13 medical school and in reading IFUs?</p> <p>14 MS. THOMPSON: Object to form.</p> <p>15 THE WITNESS: Yes. I'm not a</p> <p>16 lawyer.</p> <p>17 BY MR. OTTAWAY:</p> <p>18 Q. Are you a member of the -- what I'll</p> <p>19 refer to as -- AUGS? If I say "AUGS," do you</p> <p>20 know what I mean?</p> <p>21 A. Yes.</p> <p>22 Q. Okay. What -- what, for the ladies</p> <p>23 and gentlemen of the jury, is AUGS?</p> <p>24 A. The American Urogyne Society.</p>	<p style="text-align: right;">Page 40</p> <p>1 urinary incontinence can and does adversely</p> <p>2 affect the quality of life for women?</p> <p>3 A. I agree with you.</p> <p>4 Q. Do you agree with me that</p> <p>5 mid-urethral slings are the standard of care for</p> <p>6 the treatment of stress urinary incontinence?</p> <p>7 MS. THOMPSON: Object to form.</p> <p>8 THE WITNESS: The surgical</p> <p>9 standard of care, yeah.</p> <p>10 BY MR. OTTAWAY:</p> <p>11 Q. Okay. Is that position shared by</p> <p>12 the organizations we just mentioned of which you</p> <p>13 are a member, AUGS and ACOG?</p> <p>14 A. I think those are the standard of</p> <p>15 care, yeah.</p> <p>16 Q. And would you agree with me that</p> <p>17 TVT-O is a type of mid-urethral sling?</p> <p>18 A. That's debatable whether it ends up</p> <p>19 in mid-urethral or not.</p> <p>20 Q. Do you believe it's a mid-urethral</p> <p>21 sling or not?</p> <p>22 A. I believe it's not placed</p> <p>23 mid-urethral.</p> <p>24 Q. Okay. Have either AUGS or ACOG</p>
<p style="text-align: right;">Page 39</p> <p>1 Q. How long have you been a member of</p> <p>2 that organization?</p> <p>3 A. Probably close to 20 years.</p> <p>4 Q. Have you reviewed abstracts for that</p> <p>5 organization and prepared programs for that</p> <p>6 organization?</p> <p>7 A. Yes.</p> <p>8 Q. Are you a member of the American</p> <p>9 College of Surgeons?</p> <p>10 A. Yes.</p> <p>11 Q. Gynecological surgeons.</p> <p>12 What I will refer to as ACOG?</p> <p>13 A. They're different. College of</p> <p>14 Surgeons and ACOG are different.</p> <p>15 Q. And are you a member of both?</p> <p>16 A. Yes.</p> <p>17 Q. And when you say "ACOG," can you</p> <p>18 tell the jury what you're referring to?</p> <p>19 A. American College of Obstetricians</p> <p>20 and Gynecologists.</p> <p>21 Q. How long have you been a member of</p> <p>22 ACOG?</p> <p>23 A. Probably 25 years.</p> <p>24 Q. Do you agree with me that stress</p>	<p style="text-align: right;">Page 41</p> <p>1 taken a position that TVT-O is not a mid-urethral</p> <p>2 sling?</p> <p>3 A. Let me correct myself.</p> <p>4 In the TVT-O IFU, where they say to</p> <p>5 make the incision does not facilitate putting the</p> <p>6 sling in mid-urethral. ACOG and AUGS support</p> <p>7 mid-urethral slings.</p> <p>8 Q. Have ACOG or AUGS taken a position,</p> <p>9 to your knowledge, indicating that TVT-O is not</p> <p>10 within the category of mid-urethral slings?</p> <p>11 A. I believe they have not delineated</p> <p>12 that.</p> <p>13 Q. All right. We've been going about</p> <p>14 45 minutes, Doctor. Let's take a break.</p> <p>15 And anytime you need to take a</p> <p>16 break, by the way, if you'll just answer the</p> <p>17 question on the table and tell me you need to</p> <p>18 take a break, we'll do it at your convenience as</p> <p>19 well.</p> <p>20 Fair enough?</p> <p>21 A. That's great.</p> <p>22 MR. OTTAWAY: Okay.</p> <p>23 THE VIDEOGRAPHER: Time now is</p> <p>24 10:49. We are going off the record.</p>

<p style="text-align: right;">Page 42</p> <p>1 (Recess - 10:49 a.m. 2 - 11:02 a.m.) 3 THE VIDEOGRAPHER: The time now 4 is 11:02. We are back on the record. 5 BY MR. OTTAWAY: 6 Q. Doctor, just going back to cleaning 7 up a few things and we'll move on to another 8 topic. 9 We've established that both TOT, 10 transobturator tape, and TVT-O are still on the 11 market for treatment of stress urinary 12 incontinence; correct? 13 MS. THOMPSON: Object to form. 14 THE WITNESS: True. 15 BY MR. OTTAWAY: 16 Q. And that you in the past have used 17 both? 18 A. True. 19 Q. Are you aware of any of your 20 patients that are still benefiting from TVT-O? 21 A. So am I still aware of patients that 22 are benefiting from the TVT-O? 23 We saw some that came with problems, 24 you know, but then there are others who could be</p>	<p style="text-align: right;">Page 44</p> <p>1 MS. THOMPSON: Object to form. 2 THE WITNESS: The main risk that 3 we are trying to avoid is getting in the 4 patient's bladder, and as I said, I'm very 5 sure that that can be a problem that would 6 -- that would outweigh. But most often I 7 can suture the tissue under the urethra to 8 do the same thing. 9 That's why I haven't really 10 needed to do a transobturator tape for the 11 past few years. 12 BY MR. OTTAWAY: 13 Q. Is that the perceived benefit of a 14 transobturator approach is that you are more 15 likely to avoid injury to the bladder? 16 A. Originally when they designed it, 17 that was their intent. 18 Q. Okay. Now, you've written a report 19 concerning TVT-O and it has been provided to me. 20 You remember doing that? 21 A. Yes. 22 Q. I think it's dated February the 1st 23 of this year or just a few weeks ago? 24 A. True.</p>
<p style="text-align: right;">Page 43</p> <p>1 having problems and have gone to other 2 physicians. But the ones who haven't had 3 problems, I'm assuming they have benefited from 4 it. 5 Q. And we talked about the fact that 6 you would still occasionally use a transobturator 7 product if you felt in a particular patient that 8 the risk/benefit profile favored its use; 9 correct? 10 A. If I'm, you know, if I'm 90 percent, 11 100 percent sure that they would get into the 12 bladder doing a retropubic approach, whether it's 13 synthetic device or whether it's patient's own 14 tissue, and that's the only alternative I have, 15 then that outweighs the risk/benefit ratio. 16 Q. Okay. And when was the last time 17 you made such a decision and used a 18 transobturator product? 19 A. Probably three years ago. 20 Q. Okay. Now, when you're looking at 21 the risk/benefit profile of a transobturator 22 product versus a retropubic product, what are the 23 advantages of the transobturator approach, 24 whether it's inside-out or outside-in?</p>	<p style="text-align: right;">Page 45</p> <p>1 Q. When did you begin preparation of 2 that report? 3 MS. THOMPSON: Object to form. 4 BY MR. OTTAWAY: 5 Q. Again, Doctor, you're free to 6 answer. 7 A. Probably four to six weeks before 8 that. 9 Q. So late 2015 or early 2016? 10 A. Hmm. Probably. 11 Q. Who asked you to prepare that 12 report? 13 A. Motley Rice. 14 Q. Okay. So that report was prepared 15 solely for use in litigation. It wasn't prepared 16 for any other reason? 17 A. Yes. 18 Q. As I understand it, you charge for 19 your services? 20 A. Yes. 21 Q. Charge being \$750 an hour? 22 A. Yes. 23 Q. And \$6,000 a day plus expenses for 24 testimony?</p>

<p style="text-align: right;">Page 46</p> <p>1 A. True.</p> <p>2 Q. So today are we on the \$750 an hour</p> <p>3 or the \$6,000 a day plus expenses?</p> <p>4 A. 6,000 divided by half because we'll</p> <p>5 be utilizing half a day.</p> <p>6 Q. So \$3,000 for half a day?</p> <p>7 A. Yes.</p> <p>8 Q. And did you prepare this report</p> <p>9 yourself?</p> <p>10 A. Yes.</p> <p>11 Q. Okay. It's got an Appendix B</p> <p>12 associated with it, which is a list of reliance</p> <p>13 materials.</p> <p>14 A. Hmm?</p> <p>15 Q. A list of reliance materials.</p> <p>16 A. Okay.</p> <p>17 Q. Did you assemble those yourself?</p> <p>18 A. The references? Yes.</p> <p>19 Q. Okay. Now, part of those references</p> <p>20 are what I have marked as 2.</p> <p>21 (Document marked, for</p> <p>22 identification purposes, as Defendant's</p> <p>23 Exhibit No. 2.)</p> <p>24 BY MR. OTTAWAY:</p>	<p style="text-align: right;">Page 48</p> <p>1 other documents produced by Ethicon in this</p> <p>2 litigation?</p> <p>3 A. Not that I recall.</p> <p>4 Q. So as I understand it, those in</p> <p>5 front of you are the ones you've reviewed and</p> <p>6 you've reviewed no others?</p> <p>7 A. Unless I quoted them in my report.</p> <p>8 Q. Okay. Those are the ones I think</p> <p>9 you mention in your report.</p> <p>10 A. Then that's what it is.</p> <p>11 Q. Okay. Now, you made no independent</p> <p>12 effort to go through other documents produced by</p> <p>13 Ethicon in this litigation?</p> <p>14 A. No.</p> <p>15 Q. Some of those documents were</p> <p>16 originally in French. I don't know whether you</p> <p>17 speak French. Do you?</p> <p>18 A. No.</p> <p>19 Q. Okay. Who provided the translations</p> <p>20 of those documents for you?</p> <p>21 A. I haven't skimmed over those.</p> <p>22 Q. Please, you're free to look at them</p> <p>23 anytime you want.</p> <p>24 A. Hmm. So this document you're</p>
<p style="text-align: right;">Page 47</p> <p>1 Q. And for your benefit, Doctor, I will</p> <p>2 tell you those are documents that have been</p> <p>3 produced by Ethicon in this litigation.</p> <p>4 A. I'm just going over them.</p> <p>5 Q. Of course. Take your time.</p> <p>6 A. (Reviewing document). Yes.</p> <p>7 Q. How did you get those documents?</p> <p>8 A. It was sent to me.</p> <p>9 Q. By?</p> <p>10 A. Motley Rice.</p> <p>11 Q. Do you know how many documents have</p> <p>12 been produced in this litigation by Ethicon?</p> <p>13 A. How many what?</p> <p>14 Q. Documents have been produced by</p> <p>15 Ethicon in this litigation?</p> <p>16 A. Not really.</p> <p>17 Q. Did you go through additional</p> <p>18 documents and cull those out, or were those the</p> <p>19 documents that were provided to you?</p> <p>20 A. I went through all the documents</p> <p>21 that was provided to me. I went over this</p> <p>22 because making sure that I had seen this before.</p> <p>23 Q. Okay. And other than those</p> <p>24 documents in front of you, have you reviewed any</p>	<p style="text-align: right;">Page 49</p> <p>1 talking about is on which page? Are you talking</p> <p>2 about this one?</p> <p>3 Q. There are two that are translated</p> <p>4 from French into English in whole and part.</p> <p>5 A. Uh-huh.</p> <p>6 Q. I just wanted to know whether you</p> <p>7 did the translations or who did them.</p> <p>8 A. That's how they came.</p> <p>9 Q. Okay. And the literature portion of</p> <p>10 Exhibit B, did you assemble that yourself?</p> <p>11 A. The ones that I have quoted?</p> <p>12 Q. Yes.</p> <p>13 A. Yes.</p> <p>14 Q. Okay. When we talk about</p> <p>15 literature, Doctor, is there a hierarchy of</p> <p>16 literature that physicians rely upon, some more</p> <p>17 reliable than others?</p> <p>18 A. Could you refine it?</p> <p>19 Q. Yeah, that was a terrible question.</p> <p>20 You're right to ask me to repeat it.</p> <p>21 If you as a physician review</p> <p>22 literature, do you in your own mind differentiate</p> <p>23 between, say, peer-reviewed random controlled</p> <p>24 trials and individual case studies?</p>

<p style="text-align: right;">Page 50</p> <p>1 A. Each of them are valuable in their 2 own way.</p> <p>3 Q. Is there a hierarchy in your mind 4 that one is more reliable or better than another?</p> <p>5 A. I won't discount the case studies. 6 Because if you are talking about a problem that 7 is very major, so not all the side effects are 8 created equal, and you cannot judge them based on 9 numbers.</p> <p>10 Q. Okay. And I'm glad you answered 11 that, Doctor, but my question was: Is there a 12 hierarchy of those kinds of studies that you 13 consider one more reliable than another?</p> <p>14 A. Depends on your end point.</p> <p>15 Q. Okay. Well, let's take an end point 16 of determining whether a medical device is safe 17 and effective. Do you --</p> <p>18 MS. THOMPSON: Object to form and 19 asked and answered.</p> <p>20 BY MR. OTTAWAY:</p> <p>21 Q. You're free to answer the question 22 if I can get it out, Doctor.</p> <p>23 The question is pretty simple. I'm 24 not trying to be difficult.</p>	<p style="text-align: right;">Page 52</p> <p>1 literature, and there are some in MAUDE 2 database of FDA. So if you want to look at 3 numbers, you know, you cannot equate them.</p> <p>4 You can have a side effect, you 5 can have a complication that is very bad, 6 and those few numbers really would sway you 7 to other things. So it's just not by pure 8 numbers that you can go in terms of safety 9 of a device.</p> <p>10 BY MR. OTTAWAY:</p> <p>11 Q. Okay. Again, I appreciate your 12 answer, Doctor, I really do, but my question was 13 about the peer-reviewed literature.</p> <p>14 MS. THOMPSON: He answered the 15 question.</p> <p>16 MR. OTTAWAY: Counsel, are you 17 instructing him not to answer?</p> <p>18 MS. THOMPSON: No. No. I'll 19 object. Asked and answered.</p> <p>20 MR. OTTAWAY: Thank you, counsel.</p> <p>21 BY MR. OTTAWAY:</p> <p>22 Q. Go ahead, Doctor, I'm sorry. 23 In your mind, is there a hierarchy 24 of peer-reviewed literature, some of which you</p>
<p style="text-align: right;">Page 51</p> <p>1 Do you consider random controlled 2 trials more persuasive than individual case 3 studies as a general rule?</p> <p>4 A. Depends on your end point.</p> <p>5 MS. THOMPSON: If you can answer 6 -- if you can answer that question that 7 way.</p> <p>8 THE WITNESS: Yeah. So, again, 9 it depends on your end point.</p> <p>10 BY MR. OTTAWAY:</p> <p>11 Q. Okay. Well, let's take the end 12 point of trying to determine whether a product is 13 safe and/or effective.</p> <p>14 Do you distinguish in your mind 15 between those two types of articles?</p> <p>16 MS. THOMPSON: Object to form. 17 Combining the safe -- safety and 18 effectiveness.</p> <p>19 THE WITNESS: So one reason that, 20 for example, the TVT-O or the 21 transobuturator approach was thought of or 22 envisioned was because there was bowel 23 injury associated with TVT type slings. 24 There are very few of them in the</p>	<p style="text-align: right;">Page 53</p> <p>1 consider more important or persuasive than 2 others?</p> <p>3 A. Depends on your end point.</p> <p>4 Q. Okay. Again, taking my end point, 5 do you consider one of those a random controlled 6 trial or an individual case study more 7 persuasive?</p> <p>8 MS. THOMPSON: Object to form.</p> <p>9 BY MR. OTTAWAY:</p> <p>10 Q. You may answer.</p> <p>11 A. Each of them have values.</p> <p>12 Q. Okay. And in your mind the same?</p> <p>13 A. I read them and they're all 14 important.</p> <p>15 Q. Okay. And do you, for example, 16 Doctor, accept certain peer-reviewed journals as 17 authoritative?</p> <p>18 A. Pardon me?</p> <p>19 Q. Do you -- for example, the European 20 Journal of Obstetrics and Gynecology, do you 21 review that document?</p> <p>22 A. The American Journal for OB-GYN 23 or --</p> <p>24 Q. European Journal of Obstetrics and</p>

<p style="text-align: right;">Page 54</p> <p>1 Gynecology.</p> <p>2 A. European Journal of OB-GYN?</p> <p>3 Q. Yes.</p> <p>4 A. What about them?</p> <p>5 Q. Is that a journal that you consider</p> <p>6 authoritative?</p> <p>7 A. I have read their articles.</p> <p>8 Q. Okay. And do you rely on them in</p> <p>9 your practice?</p> <p>10 A. I would read the articles</p> <p>11 critically. And if you have an article to show</p> <p>12 me, I can read them -- read it and tell you what</p> <p>13 I think about it. I may have reviewed a few</p> <p>14 papers for them.</p> <p>15 Q. How about the American College of</p> <p>16 Obstetrics and Gynecology, publications by them?</p> <p>17 Do you consider those authoritative and reliable</p> <p>18 generally?</p> <p>19 A. I'm a reviewer for them.</p> <p>20 Q. Okay.</p> <p>21 A. But that doesn't mean that some bad</p> <p>22 papers don't make it into the journal.</p> <p>23 Q. That's why I said: Generally do you</p> <p>24 consider them to be a reliable reporting source?</p>	<p style="text-align: right;">Page 56</p> <p>1 THE WITNESS: What about AUGS?</p> <p>2 BY MR. OTTAWAY:</p> <p>3 Q. Do you consider their practice</p> <p>4 bulletins to be generally reliable and</p> <p>5 informative?</p> <p>6 MS. THOMPSON: Object to form.</p> <p>7 THE WITNESS: Does AUGS have</p> <p>8 practice bulletin?</p> <p>9 BY MR. OTTAWAY:</p> <p>10 Q. Do you know?</p> <p>11 A. I'm thinking that you're getting</p> <p>12 ACOG and AUGS mixed up.</p> <p>13 Q. It's quite possible. I get confused</p> <p>14 all the time, Doctor, but I think my question</p> <p>15 there was pretty specific.</p> <p>16 Are you aware of AUGS issuing</p> <p>17 practice bulletins?</p> <p>18 MS. THOMPSON: Object to form.</p> <p>19 THE WITNESS: They have</p> <p>20 statements.</p> <p>21 BY MR. OTTAWAY:</p> <p>22 Q. Okay. And do you consider those</p> <p>23 statements to be generally reliable and</p> <p>24 informative?</p>
<p style="text-align: right;">Page 55</p> <p>1 A. You read each -- each report</p> <p>2 critically, yeah.</p> <p>3 Q. Same true of the International</p> <p>4 Journal of Gynecology?</p> <p>5 A. Absolutely.</p> <p>6 Q. Journal of Urology?</p> <p>7 A. Any journal you want to read the</p> <p>8 article and judge it based on its merit and the</p> <p>9 end point that you are trying to evaluate.</p> <p>10 Q. Practice bulletins issued by AUGS,</p> <p>11 the organization we spoke of previously?</p> <p>12 MS. THOMPSON: Object to form.</p> <p>13 What's the question?</p> <p>14 BY MR. OTTAWAY:</p> <p>15 Q. Do you consider those to be</p> <p>16 generally reliable and informative?</p> <p>17 MS. THOMPSON: Object to form.</p> <p>18 THE WITNESS: There are -- they</p> <p>19 provide -- so you're talking about the</p> <p>20 which one? The ACOG bulletin?</p> <p>21 BY MR. OTTAWAY:</p> <p>22 Q. AUGS.</p> <p>23 A. So AUGS.</p> <p>24 MS. THOMPSON: Object to form.</p>	<p style="text-align: right;">Page 57</p> <p>1 MS. THOMPSON: Object to form.</p> <p>2 THE WITNESS: It would be</p> <p>3 opinion. Do you have a specific one that</p> <p>4 you want me to look at?</p> <p>5 BY MR. OTTAWAY:</p> <p>6 Q. I'm just asking in general.</p> <p>7 A. I would look at it and give you my</p> <p>8 opinion.</p> <p>9 Q. Okay. Do you agree that there is a</p> <p>10 body of peer-reviewed literature containing</p> <p>11 random controlled trials that finds that TVO is</p> <p>12 safe and effective?</p> <p>13 MS. THOMPSON: Object to form.</p> <p>14 THE WITNESS: Do I agree that</p> <p>15 there is a body of literature that shows</p> <p>16 TVT-O is safe and effective?</p> <p>17 Each article tells you something</p> <p>18 different. Some of them point to efficacy.</p> <p>19 Some of them look at -- depending on how</p> <p>20 they are designed, they may look at the</p> <p>21 side effects of the device. So it depends</p> <p>22 on really how the study was designed. You</p> <p>23 cannot put all of them together.</p> <p>24 BY MR. OTTAWAY:</p>

<p style="text-align: right;">Page 58</p> <p>1 Q. Can you answer my question?</p> <p>2 A. I just -- yes.</p> <p>3 Q. Are you aware of a body of</p> <p>4 peer-reviewed literature that finds that TVOT is</p> <p>5 safe and effective?</p> <p>6 MS. THOMPSON: Asked and answered</p> <p>7 and object to form of the question.</p> <p>8 BY MR. OTTAWAY:</p> <p>9 Q. TVT-O, yes.</p> <p>10 A. So is there specific literature you</p> <p>11 want me to review or point at or --</p> <p>12 Because one thing that I told you is</p> <p>13 that you cannot look at all the complications</p> <p>14 equally. Some of them can be so horrendous that</p> <p>15 that would be a bad safety issue.</p> <p>16 Q. So are you unable to answer my</p> <p>17 question as asked?</p> <p>18 A. Could you repeat the question?</p> <p>19 Q. Ma'am, can you? I hate to ask you</p> <p>20 to do that again, but I'm not sure I can repeat</p> <p>21 it exactly the same way.</p> <p>22 (The reporter read the record on</p> <p>23 page 58 lines 3-5.)</p> <p>24 BY MR. OTTAWAY:</p>	<p style="text-align: right;">Page 60</p> <p>1 And pain with sex can? So you cannot be</p> <p>2 more specific about the surgery?</p> <p>3 So generally when we do surgery,</p> <p>4 we don't want any of those.</p> <p>5 BY MR. OTTAWAY:</p> <p>6 Q. I understand and I didn't suggest</p> <p>7 that you did.</p> <p>8 A. Yeah.</p> <p>9 Q. I merely ask if they can result</p> <p>10 from.</p> <p>11 A. They shouldn't. If it happens, you</p> <p>12 wonder what went wrong.</p> <p>13 Q. Do you consent your patients to that</p> <p>14 possibility before you perform surgery?</p> <p>15 MS. THOMPSON: Object to form.</p> <p>16 THE WITNESS: I consent my</p> <p>17 patients that when they have surgery, they</p> <p>18 can have any problem including, but not</p> <p>19 limited to, death.</p> <p>20 BY MR. OTTAWAY:</p> <p>21 Q. And do those problems include pelvic</p> <p>22 pain or discomfort with intercourse?</p> <p>23 A. Yes, but then they would ask me</p> <p>24 about the surgery I'm doing and they would ask me</p>
<p style="text-align: right;">Page 59</p> <p>1 Q. TVT-O.</p> <p>2 MS. THOMPSON: And asked and</p> <p>3 answered and object to the form and answer</p> <p>4 it if you can. If you can't, you can't.</p> <p>5 THE WITNESS: Then we can</p> <p>6 proceed.</p> <p>7 BY MR. OTTAWAY:</p> <p>8 Q. You cannot answer it?</p> <p>9 A. I answered it already.</p> <p>10 MR. OTTAWAY: Okay. That's it.</p> <p>11 Let's go off the record just a</p> <p>12 second.</p> <p>13 THE VIDEOGRAPHER: Time now is</p> <p>14 11:21. We are going off the record.</p> <p>15 (Recess - 11:21 a.m.</p> <p>16 - 11:23 a.m.)</p> <p>17 THE VIDEOGRAPHER: Time now is</p> <p>18 11:23. We are back on the record.</p> <p>19 BY MR. OTTAWAY:</p> <p>20 Q. Doctor, do you agree that pelvic</p> <p>21 pain and pain with sex can result from any pelvic</p> <p>22 floor surgery?</p> <p>23 MS. THOMPSON: Object to form.</p> <p>24 THE WITNESS: So pelvic pain?</p>	<p style="text-align: right;">Page 61</p> <p>1 personally how much problem I've had with doing</p> <p>2 that surgery, and I would give them a specific</p> <p>3 replies.</p> <p>4 Q. Doctor, can those problems also</p> <p>5 occur without surgery as a result of, say, aging?</p> <p>6 MS. THOMPSON: Object.</p> <p>7 BY MR. OTTAWAY:</p> <p>8 Q. Lack of hormones?</p> <p>9 MS. THOMPSON: Object to form.</p> <p>10 THE WITNESS: So can somebody</p> <p>11 have spontaneous pelvic pain because they</p> <p>12 are getting older?</p> <p>13 BY MR. OTTAWAY:</p> <p>14 Q. Is -- yes.</p> <p>15 A. Everything is possible, but that</p> <p>16 would be very unusual.</p> <p>17 Q. Okay. Are there comorbidities that</p> <p>18 can cause pelvic pain and discomfort during</p> <p>19 intercourse?</p> <p>20 A. So could you refine that question?</p> <p>21 Q. I'm not sure that I can.</p> <p>22 A. So describe comorbidities associated</p> <p>23 with pelvic pain and discomfort with intercourse?</p> <p>24 So when somebody has pelvic pain and</p>

<p style="text-align: right;">Page 62</p> <p>1 pain with intercourse that affects their quality 2 of life, their relationship with their spouse, 3 their children, it probably decreases their 4 economic productivity. 5 Q. Strike that as nonresponsive. 6 MS. THOMPSON: I think the 7 question is comorbidities is -- 8 MR. OTTAWAY: Again, you don't 9 have to argue about it, counsel. 10 MS. THOMPSON: -- is not the 11 right word to use. He answered the 12 question using the word "comorbidities" 13 that can cause pelvic pain and discomfort. 14 MR. OTTAWAY: Actually, he didn't 15 answer the question. He described the 16 difficulties, but I move to strike. 17 MS. THOMPSON: Okay. Okay. 18 MR. OTTAWAY: And the judge can 19 work all that out later. 20 MS. THOMPSON: I'll ask. 21 MR. OTTAWAY: We're not going to 22 work it out here today. 23 THE WITNESS: So, again, yeah. 24 If you could give me a more specific</p>	<p style="text-align: right;">Page 64</p> <p>1 MS. THOMPSON: Object to form. 2 THE WITNESS: Yeah. It depends 3 on the location of the pain and where the 4 pain is. So pelvic pain is a very global 5 term that you are using. It means anywhere 6 in the pelvis. 7 Certainly if somebody had 8 mesh-type pain, that can become bigger and 9 become pelvic pain but, you know, you could 10 also have pain that started from the mesh. 11 BY MR. OTTAWAY: 12 Q. Well, I think my question was, 13 Doctor: Do you consider presurgical complaints 14 of pelvic pain and discomfort with intercourse 15 when you try to determine whether a surgery of 16 any type is a contributing factor to them? 17 A. So if I saw a patient who has pain, 18 yes, I would ask them what kind of pain they have 19 before surgery. 20 Q. And would that be an important 21 finding for you in determining a cause? 22 A. Depends on where their pain is and 23 where it's coming from. So, for example, the 24 patient who has endometriosis pain and they have</p>
<p style="text-align: right;">Page 63</p> <p>1 question. So the way -- 2 BY MR. OTTAWAY: 3 Q. Do people have complaints of pelvic 4 pain and discomfort during sex without ever 5 having any kind of surgery? 6 A. So you're asking me what are the 7 other causes of pain with intercourse and pelvic 8 pain -- 9 Q. Yes. 10 A. -- if somebody did not have surgery? 11 Q. Yeah. 12 A. Is that correct? 13 Q. I'm asking you if people can have 14 complaints of those types and never had surgery. 15 A. True. 16 Q. Never had surgery involving mesh of 17 any type? 18 A. True. Depends on the kind of pain 19 that they have. 20 Q. And when you look at a reason that 21 someone has those difficulties, do you consider 22 their presurgical complaints to be important in 23 that analysis? 24 A. Well, it depends on the --</p>	<p style="text-align: right;">Page 65</p> <p>1 stress urinary incontinence and they have 2 mesh-related pain as a consequence in the future, 3 they would have two sources of pain. 4 Q. When you say vaginal agenesis, 5 a-g-e-n-e-s-i-s, what do you mean? 6 A. Can I see where the word is? 7 Q. Page 2 of your report. 8 A. Can I have the report? 9 Q. You can. It's right there in front 10 of you, Doctor. Yes, of course. You're free to 11 refer to it whenever you want. 12 A. So where are you looking at? 13 Q. Bottom of page 2. 14 A. Oh, agenesis. 15 Q. I've spelled it because I was sure I 16 would mispronounce it. 17 A. Sorry about that. 18 Q. (Laugh). Don't be sorry I 19 mispronounce something. I'm the one that has to 20 be sorry about that. 21 I asked you what you mean when you 22 say it, though. 23 A. When -- when the body is forming 24 between three, two, four weeks of gestation to</p>

<p style="text-align: right;">Page 66</p> <p>1 somewhere about five months of gestation, you</p> <p>2 basically have the Müllerian components of</p> <p>3 mesonephric duct and paramesonephric duct that</p> <p>4 have to migrate inside the body to form the</p> <p>5 uterus and form the vagina.</p> <p>6 And when those migrations of</p> <p>7 embryologic tissue doesn't occur as programmed,</p> <p>8 then you may have anomalies in the vaginal tract.</p> <p>9 One of them being vaginal agenesis meaning the</p> <p>10 vagina just doesn't form. So externally the</p> <p>11 patient would look normal, but they would not</p> <p>12 have a formed vagina.</p> <p>13 Q. All right. Thank you. I just</p> <p>14 wondered about that.</p> <p>15 A. Thanks.</p> <p>16 Q. Let's go to page 15. The very first</p> <p>17 sentence. You see it there?</p> <p>18 A. (Nods head).</p> <p>19 Q. You've cited a number of references</p> <p>20 for that sentence.</p> <p>21 A. Which one?</p> <p>22 Q. Footnote 3.</p> <p>23 A. Which sentence?</p> <p>24 Q. Very first sentence, page 15.</p>	<p style="text-align: right;">Page 68</p> <p>1 complications as being associated with mesh</p> <p>2 procedures?</p> <p>3 MS. THOMPSON: Object to form.</p> <p>4 THE WITNESS: So when does the</p> <p>5 medical literature support that? So what</p> <p>6 was the question again?</p> <p>7 BY MR. OTTAWAY:</p> <p>8 Q. Well, Doctor, I'm not trying to be</p> <p>9 tricky.</p> <p>10 A. Yeah, I'm just not understanding the</p> <p>11 question.</p> <p>12 Q. You say the most common</p> <p>13 complications associated with mesh procedures --</p> <p>14 A. Uh-huh.</p> <p>15 Q. -- as in our experience and as</p> <p>16 reported in the medical literature are pain,</p> <p>17 dyspareunia -- which means painful intercourse;</p> <p>18 correct?</p> <p>19 A. Uh-huh.</p> <p>20 Q. Yes?</p> <p>21 A. True.</p> <p>22 Q. Erosion and de novo urinary tract</p> <p>23 systems?</p> <p>24 A. Uh-huh. True.</p>
<p style="text-align: right;">Page 67</p> <p>1 A. "Includes vaginal discharge"?</p> <p>2 Q. Yes. Well, the whole sentence, not</p> <p>3 just...</p> <p>4 A. Page 15. "Includes vaginal</p> <p>5 discharge and bleeding." Is that the sentence?</p> <p>6 Q. I sure hope we got the same report</p> <p>7 here. Are you on page 15?</p> <p>8 A. I am.</p> <p>9 Q. The very first sentence.</p> <p>10 MS. THOMPSON: Oh.</p> <p>11 THE WITNESS: "The most common</p> <p>12 complications."</p> <p>13 BY MR. OTTAWAY:</p> <p>14 Q. Yes, there you go. Got it?</p> <p>15 A. Yeah.</p> <p>16 Q. Okay. You see Footnote 3 there?</p> <p>17 A. Okay.</p> <p>18 Q. And then there is a string of</p> <p>19 citations --</p> <p>20 A. Uh-huh.</p> <p>21 Q. -- for your opinion; correct?</p> <p>22 A. Sure.</p> <p>23 Q. All right. When, in your opinion,</p> <p>24 did the medical literature begin to support these</p>	<p style="text-align: right;">Page 69</p> <p>1 Q. I want to know when those problems</p> <p>2 were reported in the medical literature.</p> <p>3 A. Well, these papers, you mean when</p> <p>4 they were published? 2014 and 2015 and 2011.</p> <p>5 Q. Okay. So 2011?</p> <p>6 A. 2012. Yeah, there's a string of</p> <p>7 them.</p> <p>8 Q. Okay. And would you agree with me</p> <p>9 that by those dates, it was known in the medical</p> <p>10 literature that these complications, in your</p> <p>11 phrase, were associated with mesh procedures?</p> <p>12 MS. THOMPSON: Object to form.</p> <p>13 THE WITNESS: These are some of</p> <p>14 the references I took. Doesn't mean there</p> <p>15 are -- there are not more of them --</p> <p>16 BY MR. OTTAWAY:</p> <p>17 Q. Oh.</p> <p>18 A. -- or older ones or newer ones.</p> <p>19 Q. In fact, there are references to</p> <p>20 these potential complications in literature older</p> <p>21 than 2011; correct?</p> <p>22 A. True.</p> <p>23 Q. Okay. So these were known to the</p> <p>24 medical community, people in your profession, by</p>

<p style="text-align: right;">Page 70</p> <p>1 a review of the medical literature prior to 2011;</p> <p>2 correct?</p> <p>3 A. True.</p> <p>4 Q. Doctor, you discuss scarring.</p> <p>5 Is scarring a potential with any</p> <p>6 surgery?</p> <p>7 A. True.</p> <p>8 Q. You learned that in medical school?</p> <p>9 A. Probably.</p> <p>10 Q. In the TOPAS product you discussed,</p> <p>11 is the mesh designed to have tissue in-growth?</p> <p>12 A. Is the mesh designed to have tissue</p> <p>13 in-growth, question mark.</p> <p>14 I think that's just a consequence of</p> <p>15 placing mesh in any space.</p> <p>16 Q. And you understand that scar tissue</p> <p>17 may result from that?</p> <p>18 A. That's the body response.</p> <p>19 Q. You understand that if the body</p> <p>20 reacts to polypropylene, it may react to that</p> <p>21 device?</p> <p>22 A. So there is inflammation and</p> <p>23 scarring of the tissue. True.</p> <p>24 Q. Okay. And doctors have known that</p>	<p style="text-align: right;">Page 72</p> <p>1 since before 2011; correct?</p> <p>2 MS. THOMPSON: Object to form.</p> <p>3 THE WITNESS: What things? The</p> <p>4 scarring?</p> <p>5 BY MR. OTTAWAY:</p> <p>6 Q. Scarring, foreign body reaction.</p> <p>7 MS. THOMPSON: Object to form.</p> <p>8 THE WITNESS: Yes, the body forms</p> <p>9 a scar.</p> <p>10 BY MR. OTTAWAY:</p> <p>11 Q. I need to learn a little bit about</p> <p>12 EVUS, E-V-U-S. Is that how you pronounce that</p> <p>13 acronym?</p> <p>14 A. Yes. What page are you on?</p> <p>15 Q. It's all through there, Doctor. You</p> <p>16 can pick almost any page you want.</p> <p>17 You know what I'm talking about when</p> <p>18 I mention EVUS; correct?</p> <p>19 A. True. Even though now we just</p> <p>20 don't -- pretty much just say US, which is</p> <p>21 ultrasound.</p> <p>22 Q. Okay. What does EVUS stand for?</p> <p>23 A. EVUS is endovaginal ultrasound.</p> <p>24 Q. And this is a technique that you</p>
<p style="text-align: right;">Page 71</p> <p>1 for a long time, haven't they?</p> <p>2 MS. THOMPSON: Object to form.</p> <p>3 THE WITNESS: That polypropylene</p> <p>4 causes scarring and inflammation? Or what</p> <p>5 is "that"? Could you question -- repeat</p> <p>6 your question?</p> <p>7 BY MR. OTTAWAY:</p> <p>8 Q. Doctors have known for a long time</p> <p>9 that scar tissue can result from surgery;</p> <p>10 correct?</p> <p>11 A. Our body goes through a cycle of</p> <p>12 healing, some of which includes scarification.</p> <p>13 Q. Okay.</p> <p>14 A. That's body's first response to</p> <p>15 heal.</p> <p>16 Q. And you teach your medical students</p> <p>17 that if you implant a device, whether it's TOPAS</p> <p>18 or any other device, you can have a reaction to</p> <p>19 that device; correct?</p> <p>20 MS. THOMPSON: Object to form.</p> <p>21 THE WITNESS: True.</p> <p>22 BY MR. OTTAWAY:</p> <p>23 Q. And these are things that are known</p> <p>24 and reported in the literature and have been</p>	<p style="text-align: right;">Page 73</p> <p>1 rely on?</p> <p>2 A. Well, when we do ultrasound, we --</p> <p>3 when we say "EVUS," we are really talking about</p> <p>4 multicompartmental ultrasound, which includes</p> <p>5 transperineal and transvaginal probably.</p> <p>6 Q. And how long has EVUS been</p> <p>7 available?</p> <p>8 A. Oh. Well, endovaginal ultrasound</p> <p>9 has been performed for years. I don't know.</p> <p>10 Probably goes back to 1950s.</p> <p>11 Q. Okay. How about three-dimensional</p> <p>12 endovaginal ultrasound?</p> <p>13 A. Probably that goes back to 15 years</p> <p>14 at least.</p> <p>15 Q. Okay. And have the organizations</p> <p>16 we've previously discussed, AUGS or ACOG, adopted</p> <p>17 three --</p> <p>18 (Cell phone interruption.)</p> <p>19 Do you need to take that? Doctor,</p> <p>20 let's go off the record if you need to.</p> <p>21 A. Not me.</p> <p>22 THE VIDEOGRAPHER: Time now is</p> <p>23 11:40. We are going off the record.</p> <p>24 (Recess - 11:40 a.m.)</p>

<p style="text-align: right;">Page 74</p> <p>1 - 11:40 a.m.)</p> <p>2 THE VIDEOGRAPHER: Time now is</p> <p>3 11:40. We are back on the record.</p> <p>4 BY MR. OTTAWAY:</p> <p>5 Q. Page 17 of your report.</p> <p>6 A. Sure.</p> <p>7 Q. I'll just read a sentence, and then</p> <p>8 I want to ask you a question about it.</p> <p>9 "Multiple publications have</p> <p>10 determined that three-dimensional endovaginal</p> <p>11 ultrasound is a reliable, reproducible, and</p> <p>12 well-accepted method for assessing pelvic floor</p> <p>13 conditions, including mesh complications."</p> <p>14 Have I read that correctly?</p> <p>15 A. True.</p> <p>16 Q. Okay. Now, my question is: Have</p> <p>17 AUGS or ACOG been among the organizations that</p> <p>18 have determined that three-dimensional</p> <p>19 endovaginal ultrasound is a reliable,</p> <p>20 reproductive, and well-accepted method for</p> <p>21 accessing -- assessing pelvic floor conditions,</p> <p>22 including mesh complications?</p> <p>23 MS. THOMPSON: Object to form.</p> <p>24 THE WITNESS: I think to answer</p>	<p style="text-align: right;">Page 76</p> <p>1 Q. You can't tell me the answer right</p> <p>2 now?</p> <p>3 MS. THOMPSON: Well --</p> <p>4 THE WITNESS: I know you --</p> <p>5 MS. THOMPSON: -- AUGS and ACOG</p> <p>6 aren't publications.</p> <p>7 MR. OTTAWAY: I'm just asking if</p> <p>8 they got publications or positions.</p> <p>9 MS. THOMPSON: If you can't</p> <p>10 answer the question, you don't answer.</p> <p>11 THE WITNESS: I know IUGA has</p> <p>12 released a statement. I have to review the</p> <p>13 AUGS and ACOG, but they traditionally do</p> <p>14 not release those kind of statements.</p> <p>15 BY MR. OTTAWAY:</p> <p>16 Q. Okay. You mentioned the</p> <p>17 international society referring to ultrasound as</p> <p>18 the gold standard?</p> <p>19 A. Yeah.</p> <p>20 Q. Is that the same phrase that the</p> <p>21 organizations I just mentioned, AUGS and ACOG,</p> <p>22 use to describe mid-urethral slings?</p> <p>23 A. So --</p> <p>24 MS. THOMPSON: Object to form.</p>
<p style="text-align: right;">Page 75</p> <p>1 your question, International Urogynecology</p> <p>2 Association has determined that ultrasound</p> <p>3 is the gold standard for endosphincter</p> <p>4 imaging and so on and so forth.</p> <p>5 BY MR. OTTAWAY:</p> <p>6 Q. Okay. My question was AUGS and</p> <p>7 ACOG. You mentioned the international society.</p> <p>8 A. Uh-huh.</p> <p>9 Q. How about AUGS and ACOG? How about</p> <p>10 the answer to my question?</p> <p>11 MS. THOMPSON: Object to form.</p> <p>12 THE WITNESS: Have they released</p> <p>13 a statement saying that? That what? That</p> <p>14 exactly the sentence that we said?</p> <p>15 The sentence is saying that there</p> <p>16 are a lot of publications supporting its</p> <p>17 use.</p> <p>18 BY MR. OTTAWAY:</p> <p>19 Q. And my question is: Are AUGS and</p> <p>20 ACOG among them?</p> <p>21 MS. THOMPSON: Object to form.</p> <p>22 THE WITNESS: I have to review</p> <p>23 it.</p> <p>24 BY MR. OTTAWAY:</p>	<p style="text-align: right;">Page 77</p> <p>1 THE WITNESS: So -- so I'm just</p> <p>2 trying to wrap my brain around the question</p> <p>3 you have.</p> <p>4 BY MR. OTTAWAY:</p> <p>5 Q. Well, I'm glad I asked one that</p> <p>6 required you to wrap your brain around it.</p> <p>7 A. I don't understand it. So you -- we</p> <p>8 were talking about ultrasound and IUGA, and then</p> <p>9 you said something.</p> <p>10 Q. It's really not that difficult,</p> <p>11 Doctor.</p> <p>12 A. Okay.</p> <p>13 Q. You told me that an organization and</p> <p>14 you cited it -- the international society --</p> <p>15 referred to this ultrasound as the gold standard;</p> <p>16 correct? Remember saying that?</p> <p>17 A. True.</p> <p>18 Q. Okay. Have you heard that phrase,</p> <p>19 that same phrase "gold standard" applied for the</p> <p>20 use of mid-urethral slings to treat stress</p> <p>21 urinary incontinence?</p> <p>22 A. By ACOG and AUGS?</p> <p>23 Q. Yes.</p> <p>24 A. I cannot recall.</p>

<p style="text-align: right;">Page 78</p> <p>1 Q. I think we've covered this before, 2 but I just want to make sure. 3 Exhibit 2 there. Are those the only 4 Ethicon documents upon which you rely to support 5 the opinion at page 19 of your report? 6 A. Go ahead. 7 Q. It starts out "I reviewed Ethicon 8 documents." 9 Are those the only Ethicon documents 10 you reviewed to support that part of your 11 opinion? 12 A. I believe so. 13 Q. All right. When you say "mesh 14 contraction," what do you mean? 15 A. Mesh being smaller than it was 16 implanted. 17 Q. Okay. And when does the literature 18 first discuss that as a potential with 19 polypropylene mesh? 20 A. Probably somewhere in 1950s, '60s 21 with mesh for hernia repair. 22 Q. And mesh has been used -- 23 polypropylene mesh has been used for years in 24 surgical situations, whether it's sutures or</p>	<p style="text-align: right;">Page 80</p> <p>1 Q. Okay. If you go to page 5 of your 2 report, Doctor. 3 A. Go ahead. 4 MR. OTTAWAY: We're going to get 5 into some of your opinions. 6 How long have we been going, 7 Ms. Reporter? 8 THE VIDEOGRAPHER: 43 minutes. 9 MR. OTTAWAY: 43. Let's go ahead 10 and take another break. I told you we'd 11 break about every 45 minutes, and this is a 12 good time to do so. 13 THE WITNESS: Okay. Has it been 14 45 minutes? 15 MR. OTTAWAY: It has. Have you 16 been having fun and time flies when you're 17 having fun? 18 THE WITNESS: Yeah, it's just -- 19 that's fine. We can take like five 20 minutes; right? 21 THE VIDEOGRAPHER: Time now is 22 11:49. We are going off the record. 23 (Recess - 11:49 a.m.. 24 - 12:03 p.m.)</p>
<p style="text-align: right;">Page 79</p> <p>1 woven mesh or medical devices such as 2 mid-urethral slings? Is that a true statement? 3 A. It has been used for hernia repair 4 and has had complications, and people have tried 5 to move away from it into other type of products. 6 Q. But that's been known, this 7 contraction issue you discuss, for many years in 8 the medical community to people who practice in 9 the profession that you do? 10 MS. THOMPSON: Object to form. 11 THE WITNESS: So do people know 12 that mesh contracts? 13 BY MR. OTTAWAY: 14 Q. Yes. 15 A. I think they are told that it 16 doesn't, and it depends on how much of the 17 literature they are reading and how critically 18 they are looking at the literature. 19 Q. Okay. Someone who looks at the 20 literature would be able to find support for that 21 proposition? 22 A. That mesh contracts? 23 Q. Yes. 24 A. Yes.</p>	<p style="text-align: right;">Page 81</p> <p>1 THE VIDEOGRAPHER: Time now is 2 12:03. We are back on the record. This is 3 the beginning of disk No. 2. 4 BY MR. OTTAWAY: 5 Q. Dr. Shobeiri, I had referred you 6 when we broke to page 5 of your report, which is 7 titled "Summary of Opinions." 8 A. Yes, sir. 9 Q. Have you had a chance to review that 10 while we were on break? 11 A. No. I was actually looking at IFU. 12 Q. Okay. Well, I take it you're 13 familiar with these opinions? 14 A. Yes. 15 Q. And I want to ask you about them -- 16 A. Uh-huh. 17 Q. -- one at a time. 18 A. Sure. 19 Q. Tell me about opinion number 1. 20 What is your opinion and upon what do you base 21 it? 22 A. Mesh complications are unlike those 23 seen with the other pelvic surgery in terms of 24 onset, frequency, severity, character,</p>

<p style="text-align: right;">Page 82</p> <p>1 responsiveness to treatment.</p> <p>2 So in terms of TVT-O, the mesh arms</p> <p>3 are going through a space that generally</p> <p>4 obstetrician/gynecologists were not familiar</p> <p>5 with. So the kind of problems that occurred in</p> <p>6 terms of dealing with those problems, really</p> <p>7 understanding the frequency, the severity, the</p> <p>8 character of them, how to respond to, are very</p> <p>9 difficult.</p> <p>10 Q. Okay. And --</p> <p>11 A. So traditional pelvic surgery,</p> <p>12 complications that OB-GYNs were used to were, you</p> <p>13 know, urethral injury or bladder injury or those</p> <p>14 kind of things. So these are very unique type of</p> <p>15 problems.</p> <p>16 Q. Okay. Tell me exactly what you</p> <p>17 refer to when you say "complications."</p> <p>18 MS. THOMPSON: Object to form.</p> <p>19 THE WITNESS: Complications in</p> <p>20 terms of TVT-O, we are talking about the</p> <p>21 spaces traversing the response of local</p> <p>22 tissue to mesh in that area, the proximity</p> <p>23 of the sling arm to nerve vasculature that,</p> <p>24 you know, were just unfamiliar territory.</p>	<p style="text-align: right;">Page 84</p> <p>1 Q. Are you talking about the --</p> <p>2 A. Obturator space.</p> <p>3 Q. -- obturator space?</p> <p>4 A. Yeah.</p> <p>5 Q. Okay.</p> <p>6 A. So in terms of frequency, they</p> <p>7 didn't know how frequently that would occur. If</p> <p>8 it occurred, in terms of severity, they didn't</p> <p>9 know how severe it could be, what character to</p> <p>10 expect, and how to respond to it.</p> <p>11 Q. Okay. And in your mind, is there a</p> <p>12 difference between the inside-out and outside-in</p> <p>13 technique for purposes of your criticism</p> <p>14 number 1?</p> <p>15 A. Well, the TVT-O course is -- can be</p> <p>16 unreliable and -- and they do travel tracts that</p> <p>17 are different.</p> <p>18 Q. Okay. Tell me how that is.</p> <p>19 Describe to me the different tracts, if you will,</p> <p>20 and why that makes a difference, if it does, to</p> <p>21 your opinion.</p> <p>22 A. Uh-huh. So, for example, I told you</p> <p>23 with the TOTs at one point and the problem with</p> <p>24 that was that, you know, you -- you had the</p>
<p style="text-align: right;">Page 83</p> <p>1 BY MR. OTTAWAY:</p> <p>2 Q. I'm really trying to understand,</p> <p>3 Doctor, but you've kind of skipped down to what I</p> <p>4 think would be number 6 or 7 or one of the</p> <p>5 others.</p> <p>6 Does this refer to TVT-O</p> <p>7 specifically or mesh products in general?</p> <p>8 A. I think in terms --</p> <p>9 Q. Number 1.</p> <p>10 A. Yeah. In terms of this report, we</p> <p>11 are talking about TVT-O.</p> <p>12 Q. Okay. And when you say "mesh" up</p> <p>13 here in number 1, you mean TVT-O?</p> <p>14 A. I think we are talking -- saying</p> <p>15 TVT-O mesh complications.</p> <p>16 Q. Okay. Thank you for that.</p> <p>17 And why do you say they differ in</p> <p>18 severity, frequency, and responsiveness to</p> <p>19 treatment? I want to know the basis of those</p> <p>20 opinions.</p> <p>21 A. Uh-huh. So because the mesh arms --</p> <p>22 and all of these opinions really melt into each</p> <p>23 other -- go through a space that OB-GYNs were not</p> <p>24 traditionally familiar with.</p>	<p style="text-align: right;">Page 85</p> <p>1 ability to hug the bone as you were coming</p> <p>2 around, but then the problem it posed was that it</p> <p>3 would be too close either to the vaginal skin or</p> <p>4 perforate the skin. So you have erosion problem,</p> <p>5 and that was the problem that was recognized.</p> <p>6 And potentially TVT-O going from</p> <p>7 inside-out would alleviate that problem, but then</p> <p>8 the trajectory of the needle going the other way</p> <p>9 into the thigh to the mesh to a separate area.</p> <p>10 Q. Okay. And what did that have to do</p> <p>11 with the onset frequency, severity, character of</p> <p>12 the injury, or responsiveness to treatment?</p> <p>13 A. Well, you are putting the mesh close</p> <p>14 to the anterior and posterior branches of the</p> <p>15 obturator nerve. So you're -- you're operating</p> <p>16 in a space that people are not used to, and</p> <p>17 you're not really foreseeing that those nerves</p> <p>18 are there and what the body response would be to</p> <p>19 it in terms of pain. So that creates unique</p> <p>20 problems.</p> <p>21 Q. Okay. And what -- how do those</p> <p>22 problems manifest?</p> <p>23 A. Leg pain, groin pain, you know, and</p> <p>24 the company thought that they would go away</p>

<p style="text-align: right;">Page 86</p> <p>1 within the first 24 hours, 48 hours but, you 2 know, when they persist, they don't go away even 3 if after you try to remove the mesh. 4 Q. Okay. Have you reviewed 5 peer-reviewed literature which suggests that this 6 leg and groin pain is transitory? 7 MS. THOMPSON: Object to form. 8 BY MR. OTTAWAY: 9 Q. You can answer, Doctor. 10 A. Have I reviewed? So the -- yeah, 11 there is the data in the literature that as high 12 as like 25 percent of patients can have this pain 13 to begin with, and it sort of settles down to 14 somewhere about 3 percent that is persistent. 15 Q. Okay. Your second opinion -- have 16 you finished on number 1? 17 A. Sure. 18 Q. Okay. Number 2. Three-dimensional 19 endovaginal ultrasound is a reliable, 20 reproducible, etc. 21 Tell me what your opinion is there 22 and how it relates to TVT-O. 23 A. Sure. So pelvic floor ultrasound 24 has been used for many, many years and used to</p>	<p style="text-align: right;">Page 88</p> <p>1 through your opinions and tell me what this 2 ultrasound tells you about that that's important 3 in forming your opinion. 4 A. Sure. Ultrasound would show me 5 where the TVT-O goes, whether it's lying down 6 flat, whether it's caught at, whether it's 7 mid-urethral, whether it's placed too high close 8 to the bladder. It would show me really the -- 9 granted that if all the physicians are educated 10 similarly on how to perform this procedure, does 11 the product actually end up being where it's 12 intended to be. So -- 13 Q. And what have you found in that 14 regard? 15 A. The -- again, it depends on the 16 patient. You can see whether it's flat, it's 17 folding, whether it's prominent and its touching 18 the vaginal skin, whether it's lopsided. 19 So, again, when you read the 20 operative reports from physicians saying that 21 they -- they did the procedure exactly as they 22 were taught, and then you do the ultrasound and 23 you see that sling is traveling in really places 24 that you wouldn't expect, that would give you --</p>
<p style="text-align: right;">Page 87</p> <p>1 assess all sorts of pelvic floor condition from 2 birth-related trauma to prolapse to incontinence 3 to vaginal masses and cysts and mesh and that's 4 about it. 5 Q. Okay. And how does that relate to 6 TVT-O specifically? If it does? 7 A. Well, the ultrasound is -- shows you 8 what's under the skin. So if you want to see 9 the -- where the TVT-O is, how it's traveling, 10 how -- how it's behaving inside the body, you can 11 see it. 12 Q. All right. And that kind of bleeds 13 into number 3, as I understand your testimony. 14 So tell me how this ultrasound 15 reveals important things, in your opinion, about 16 trends. 17 A. So, again, ultrasound just shows you 18 what's under the skin. You -- you do the 19 ultrasound and you see the sling, and you can 20 document where it's going and where its location 21 is. 22 Q. And regarding TVT-O -- 23 A. Uh-huh. 24 Q. -- specifically, take me down</p>	<p style="text-align: right;">Page 89</p> <p>1 give us an insight into the pathophysiology of 2 the patient's pain. 3 Q. And, Doctor, have you reduced these 4 discussions you're having with me now about 5 this -- these findings on ultrasound to some sort 6 of paper? 7 A. We do have -- 8 MS. THOMPSON: Object to form. 9 THE WITNESS: -- in the 10 references, yes, there are papers that we 11 have published or they're out there. Yeah. 12 BY MR. OTTAWAY: 13 Q. And the reason I ask is because I 14 looked at your resumé and came up with a few, and 15 I wondered whether these had been reduced to 16 writing. They're listed under your submissions. 17 A. If they say "accepted" or "in 18 publication," then those are the ones you want to 19 look at. 20 Q. Right. There are several here 21 listed "In progress." 108, 109, and 111. 22 A. I'm wondering if you have the old CV 23 or the new CV. 24 Q. I wouldn't have a clue, Doctor. I</p>

<p style="text-align: right;">Page 90</p> <p>1 have what --</p> <p>2 A. Does it have --</p> <p>3 Q. -- counsel provided me.</p> <p>4 A. Does it on top say updated what</p> <p>5 date?</p> <p>6 Q. I can answer that question, but it's</p> <p>7 at the bottom.</p> <p>8 A. I'm sorry.</p> <p>9 Q. And it says it was updated</p> <p>10 February 1, 2016 at 8:01 a.m.</p> <p>11 A. So that means it's pretty recent.</p> <p>12 Q. Okay. So my question, again, is:</p> <p>13 There are three articles or three works here that</p> <p>14 are attributed to you and Mr. Javadian?</p> <p>15 A. Javadian, yeah.</p> <p>16 Q. Javadian. I want to pronounce it</p> <p>17 correctly.</p> <p>18 The first being "Ultrasonic</p> <p>19 Predictors of Mesh Complications." It says "In</p> <p>20 progress."</p> <p>21 A. Okay.</p> <p>22 Q. The next one is "Transobturator Tape</p> <p>23 Syndrome: Ultrasonic Predictors of Pain." It</p> <p>24 says "in progress."</p>	<p style="text-align: right;">Page 92</p> <p>1 BY MR. OTTAWAY:</p> <p>2 Q. Okay. How about -- how about the</p> <p>3 other two I mentioned, 108 and 109?</p> <p>4 A. The other two, they have probably</p> <p>5 been submitted in abstract form. I have to check</p> <p>6 into it.</p> <p>7 Q. Okay. And if they've been submitted</p> <p>8 in abstract form, can they be provided to us as</p> <p>9 well?</p> <p>10 A. Yeah, if they are. I can -- I</p> <p>11 cannot recall whether I have a confirmation of</p> <p>12 submission yet. But if they are not submitted</p> <p>13 yet, they will be submitted.</p> <p>14 Q. Okay. I'm sorry. We were talking</p> <p>15 about mesh findings on ultrasound and we were on</p> <p>16 number 4 of your opinion, Doctor.</p> <p>17 A. Great.</p> <p>18 Q. I take it this mesh again refers to</p> <p>19 TVT-O?</p> <p>20 A. Yes.</p> <p>21 Q. Okay. It says "deformation."</p> <p>22 What do you mean when you say</p> <p>23 "deformation"?</p> <p>24 A. Deformation? Well, it has been --</p>
<p style="text-align: right;">Page 91</p> <p>1 A. In progress.</p> <p>2 Q. And the third is "Public Health</p> <p>3 Impact of Vaginal Mesh Complications on Women's</p> <p>4 Health: In progress."</p> <p>5 A. I know that one has been submitted.</p> <p>6 Q. Okay. Submitted to whom?</p> <p>7 A. Probably American Journal of OB-GYN.</p> <p>8 Q. Okay. And has it been accepted for</p> <p>9 publication?</p> <p>10 A. I'm not sure.</p> <p>11 Q. So it exists in some form we can see</p> <p>12 that's been submitted to a journal?</p> <p>13 MS. THOMPSON: Object to form.</p> <p>14 And you can answer the question</p> <p>15 but -- but --</p> <p>16 THE WITNESS: The one --</p> <p>17 MS. THOMPSON: -- but subject to</p> <p>18 whatever the standard is for submitted</p> <p>19 publications that have not yet been</p> <p>20 published.</p> <p>21 THE WITNESS: Yeah. We can -- we</p> <p>22 can give you the Public Health impact paper</p> <p>23 probably. I will check with my counsel and</p> <p>24 see how that goes.</p>	<p style="text-align: right;">Page 93</p> <p>1 it's clarified in parens. It says "flat,</p> <p>2 folding, prominence, or convoluted."</p> <p>3 Q. And then it says "etc." I want to</p> <p>4 know what "etc." is.</p> <p>5 A. We looked at different sling</p> <p>6 common -- common sort of sling presentations on</p> <p>7 ultrasound. And those are the four common ones,</p> <p>8 but there were probably a few that do not fit in</p> <p>9 those categories. And those would be maybe</p> <p>10 somebody who had their sling removed, and they</p> <p>11 had a residual piece of sling mesh left in there</p> <p>12 or --</p> <p>13 Q. Well, I noticed it goes on and talks</p> <p>14 about residual mesh.</p> <p>15 A. Yes. So that's probably one of the</p> <p>16 examples.</p> <p>17 Q. Do you know anything else that fits</p> <p>18 into the "etc." you can come up with today?</p> <p>19 A. So "etc." would be somebody who has</p> <p>20 sling, you know, complication, TVT-O</p> <p>21 complication. Maybe they have a hematoma in the</p> <p>22 area. Or --</p> <p>23 Q. Okay. I'm sorry.</p> <p>24 A. -- maybe they -- go ahead.</p>

<p style="text-align: right;">Page 94</p> <p>1 Q. No, you finish your answer.</p> <p>2 A. See if they have blood collection in</p> <p>3 the area or maybe there's an abscess or such.</p> <p>4 That would be "etc."</p> <p>5 Q. And are these findings limited to</p> <p>6 TVT-O, or did they include all mid-urethral</p> <p>7 slings?</p> <p>8 MS. THOMPSON: Object to form.</p> <p>9 THE WITNESS: These would be</p> <p>10 transobturator slings.</p> <p>11 BY MR. OTTAWAY:</p> <p>12 Q. Okay. And where would I find this</p> <p>13 findings or these findings published?</p> <p>14 A. Well, I think these are the ones</p> <p>15 that you were asking about about submission. So</p> <p>16 when we submit them, they would be available in</p> <p>17 abstract form.</p> <p>18 Q. Okay. But you're not aware of any</p> <p>19 current publication containing these findings?</p> <p>20 MS. THOMPSON: Object to form.</p> <p>21 THE WITNESS: They do -- they</p> <p>22 could be in different publications, and</p> <p>23 they could be in some of our other</p> <p>24 publications that we have.</p>	<p style="text-align: right;">Page 96</p> <p>1 A. Sure.</p> <p>2 Q. And do you teach your medical</p> <p>3 students that that is an important part of their</p> <p>4 education, when they're deciding whether to use a</p> <p>5 device or not, to consult the medical literature</p> <p>6 about that device?</p> <p>7 A. So am I teaching my medical students</p> <p>8 that mesh contraction is important?</p> <p>9 Q. No. What I asked you was: Do you</p> <p>10 teach your medical students that reference to</p> <p>11 peer-reviewed literature is an important part of</p> <p>12 their education when they go about trying to</p> <p>13 decide whether to use a medical device or any</p> <p>14 medical procedure?</p> <p>15 MS. THOMPSON: Object to form.</p> <p>16 THE WITNESS: We teach our</p> <p>17 students and residents evidence-based</p> <p>18 medicine.</p> <p>19 BY MR. OTTAWAY:</p> <p>20 Q. Which means? Which means?</p> <p>21 A. Which means we have the literature,</p> <p>22 case reports, and learn to read it just because</p> <p>23 within writing doesn't mean it's, you have to</p> <p>24 take it. You need to read it critically and you</p>
<p style="text-align: right;">Page 95</p> <p>1 BY MR. OTTAWAY:</p> <p>2 Q. Okay. Can you cite me to any as we</p> <p>3 sit here?</p> <p>4 A. So in -- there's a paper by Denson,</p> <p>5 D-e-n-s-o-n. So that probably would point you to</p> <p>6 some of those patterns.</p> <p>7 Q. Are all of those contained in your</p> <p>8 Exhibit B? When I say "Exhibit B" I mean Exhibit</p> <p>9 B to your report, which is your reliance</p> <p>10 materials.</p> <p>11 MS. THOMPSON: Object to form.</p> <p>12 THE WITNESS: Probably that paper</p> <p>13 is in there.</p> <p>14 BY MR. OTTAWAY:</p> <p>15 Q. The next one is mesh contraction</p> <p>16 defined as shrinkage or reduction in size. You</p> <p>17 list it as a well-known occurrence.</p> <p>18 A. Uh-huh.</p> <p>19 Q. When you say "well-known," does that</p> <p>20 mean reported in the literature?</p> <p>21 A. It's reported in the literature.</p> <p>22 Sure. Yep.</p> <p>23 Q. Okay. And that literature is</p> <p>24 available to all physicians in your specialty?</p>	<p style="text-align: right;">Page 97</p> <p>1 need to investigate and look at the evidence.</p> <p>2 Q. Now, number 6, I think this is where</p> <p>3 you were telling me about what you referred to as</p> <p>4 the wings; am I right?</p> <p>5 A. Sure.</p> <p>6 Q. Okay. Tell me about that, please,</p> <p>7 if we didn't get it all already.</p> <p>8 A. Sure. The lateral portion of the</p> <p>9 Gynecare TVT-O mesh devices are difficult, if not</p> <p>10 impossible, to remove, even with the aid of</p> <p>11 advanced imaging and the surgical skill and</p> <p>12 result in seeing of comorbidity for patients.</p> <p>13 So it goes to what we talked about</p> <p>14 where the sling arms are going into a space that</p> <p>15 is really unfamiliar to the general OB-GYNs or</p> <p>16 general urologists who are doing these surgeries.</p> <p>17 And when we go to remove the mesh</p> <p>18 because of the pain, nerve entrapment, etc., as</p> <p>19 the sling arm advances and goes behind the tissue</p> <p>20 pubic rami it pretty much is turning behind the</p> <p>21 wall, so to speak, and it's just hard to follow.</p> <p>22 Q. Anything else you need tell me about</p> <p>23 number 6?</p> <p>24 A. Pardon me?</p>

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1 Q. Anything else you need to tell me
2 about opinion number 6?

3 A. Well, the last sentence that it says
4 results in significant morbidity for the patient.
5 Once you have scarring around the nerve causing
6 the pain, a lot of times even if when you go and
7 remove the sling, the scarring is still there and
8 the pain may not be reduced, depending on when
9 the original sling was placed.

10 Q. And do you reference specific
11 literature to support that opinion?

12 MS. THOMPSON: Object to form.

13 THE WITNESS: Am I citing a
14 specific reference for relating to that? I
15 think it is in my references. We can look
16 it up.

17 BY MR. OTTAWAY:

18 Q. We'll do that at the next break,
19 Doctor, and you can tell me. I don't want to
20 take your time here.

21 But if you do reference a specific
22 piece of literature to support number 6, I would
23 appreciate you finding it for me on the next
24 break, okay?

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1 A. Do I have any of the papers with me?
2 Oh, no, I need the papers. So those
3 are just the references.

4 Maybe, maybe not. I have to look at
5 them.

6 Q. Okay. And if you find one, will you
7 advise --

8 A. Sure.

9 Q. -- Counsel here so she can advise
10 us?

11 A. Sure.

12 Q. Okay. Number 7. TVT-O is
13 associated with an unacceptably high rate of
14 chronic pain.

15 Tell me about that. What do you
16 rely on to support that opinion?

17 A. Sure. So, again, you get to the
18 fact that you're operating in a space that causes
19 the kind of pain that is hard to get rid of --

20 Q. Okay.

21 A. -- and that's unacceptable.

22 Q. Okay. Now, are we talking about a
23 particular kind of pain here?

24 A. We are talking about groin pain and

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1 the leg pain that the patients experience.
2 Q. So it's groin and leg pain.
3 And do you have in your mind what an
4 acceptable rate of pain would be?

5 MS. THOMPSON: Object to form.

6 BY MR. OTTAWAY:

7 Q. You say this is "unacceptably high."
8 Do you have an opinion about what
9 would be acceptable, in your opinion?

10 A. Acceptable rate --

11 MS. THOMPSON: Object to form.

12 THE WITNESS: -- of chronic pain
13 for me would be none.

14 BY MR. OTTAWAY:

15 Q. Okay. So anything above zero is an
16 unacceptably high rate of chronic pain to you?

17 MS. THOMPSON: Object to form.

18 THE WITNESS: I don't want my
19 patients to have any chronic pain.

20 BY MR. OTTAWAY:

21 Q. Okay. I'm just asking what your
22 opinion is here, Doctor.

23 Was my statement correct?

24 A. My opinion is that if the patient

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1 walked into your office without chronic pain and
2 they're to take care -- they're to have their
3 urinary incontinence taken care of, they should
4 not walk away with chronic debilitating pain.

5 Q. Is --

6 A. So it's unacceptable.

7 Q. Okay. Any level? Anything above
8 zero percent?

9 A. If my patient walked into my office
10 and they had that surgery done, and they came to
11 me and they said they are having this pain, I --
12 I would take it very seriously.

13 And likely I would remove that sling
14 very quickly before the scarring sets in and she
15 has chronic pain.

16 Q. Okay. Number 9.

17 By the way, I'll tell you. We
18 looked at your reference material. We didn't see
19 the paper listed by Denson.

20 A. Pardon me?

21 Q. We didn't list -- see a paper listed
22 by the author you referenced.

23 A. Oh, okay. Well, you can -- it's
24 probably -- I'll find it for you. That's fine.

<p style="text-align: right;">Page 102</p> <p>1 Q. Okay. 9 and 10 kind of are related 2 to each other. Tell me about those. 3 A. So this is the same sort of thing 4 that we talked about. 5 If a patient walks into my office, 6 not having had this pain but purely for treatment 7 of urinary incontinence, and then they wake up 8 after the procedure, they have pain that 9 persists, given what I told you about the course 10 of unpredictable -- unpredictable course of the 11 slings that has been shown both in the literature 12 and can also be -- be seen by ultrasound, it's 13 safe to conclude that they're having a 14 device-related complication. 15 Q. Again, Doctor, I'm going to ask you 16 if you're referencing there any specific 17 literature upon which you rely to support your 18 opinion. 19 A. The -- I believe we have the 20 references in the list of references, I believe. 21 Q. Okay. So everything I would find in 22 your list of reliance materials in Exhibit B to 23 your report? 24 A. Pardon me?</p>	<p style="text-align: right;">Page 104</p> <p>1 record. 2 THE VIDEOGRAPHER: Time now is 3 12:32. We are going off the record. 4 (Recess - 12:32 p.m. 5 - 12:32 p.m.) 6 THE VIDEOGRAPHER: Time now is 7 12:32. We are back on the record. 8 (Document marked, for 9 identification purposes, as Defendant's 10 Exhibit No. 3.) 11 BY MR. OTTAWAY: 12 Q. Doctor, we are back on the record 13 and you've been handed an exhibit here, which is 14 a part of your report labeled "Reliance 15 Materials." 16 Can you go through there and 17 reference, if you can, the specific support for 18 the opinions we just discussed. 19 MS. THOMPSON: Object to form. 20 Well, answer that question 21 however you want. 22 THE WITNESS: So -- so what you a 23 handed me is a list of publications, you 24 know, that we have coded and it's just a</p>
<p style="text-align: right;">Page 103</p> <p>1 Q. Everything you rely on is contained 2 in Exhibit B to your report, which is your 3 reliance materials? 4 MS. THOMPSON: Do you have 5 Exhibit B that he could -- 6 MS. FISCHER: Go off the record, 7 please. 8 MS. THOMPSON: You don't have to 9 go off the record to mark an exhibit. 10 MS. FISCHER: Are you refusing my 11 request to go off the record? 12 MS. THOMPSON: Well, we're taking 13 a lot of breaks. 14 MS. FISCHER: Two. We've taken 15 two. Are you refusing my request to go off 16 the record? 17 MS. THOMPSON: No, I'm not 18 refusing. I'm just suggesting if you're 19 going to do something that takes 10 20 seconds, it's probably more efficient to 21 stay on the record. 22 MS. FISCHER: Are we off the 23 record or not? 24 MS. THOMPSON: Yeah. Go off the</p>	<p style="text-align: right;">Page 105</p> <p>1 list of it. So what I require right now is 2 the actual articles for me to go through 3 and tell you where they are. 4 BY MR. OTTAWAY: 5 Q. Doctor, they didn't give them to us 6 and, I mean, I guess they're available. 7 But do you have anything in your 8 mind right now, any specific article you're 9 referencing? 10 MS. THOMPSON: And -- and you 11 also have to which opinion you're referring 12 to. 13 MR. OTTAWAY: The same one we 14 were just discussing, counsel. I haven't 15 moved on. 16 MS. THOMPSON: Okay. Which one 17 are we on? 18 MR. OTTAWAY: I'm sorry. Let's 19 go back. I think it was 8 and 9. 20 THE WITNESS: 9 and 10. 21 MR. OTTAWAY: 9 and 10. See, I 22 was pretty close. The doctor knew all the 23 time. 24 MS. THOMPSON: Okay. Numbers 9</p>

<p style="text-align: right;">Page 106</p> <p>1 and 10.</p> <p>2 THE WITNESS: So there are a lot</p> <p>3 of articles supporting this. I have to see</p> <p>4 the actual articles to put it out for you.</p> <p>5 BY MR. OTTAWAY:</p> <p>6 Q. Okay. So you're not able to tell me</p> <p>7 just looking at the --</p> <p>8 A. Yeah. They --</p> <p>9 Q. -- exhibit I handed you?</p> <p>10 A. They are a lot of articles and there</p> <p>11 are a lot of them that each of them looks at a</p> <p>12 different point, and I'll be happy to give you</p> <p>13 that information if I have the actual papers.</p> <p>14 Q. Okay. Just keep going there,</p> <p>15 Doctor, and I want to take all the other opinions</p> <p>16 and ask you the same kind of thing.</p> <p>17 Do you have any particular support</p> <p>18 you're relying on for them, or is this just,</p> <p>19 again, contained somewhere in your reliance</p> <p>20 materials?</p> <p>21 A. For the what question?</p> <p>22 Q. The rest of them, 10 on.</p> <p>23 A. Yeah, I think they're all in the</p> <p>24 references that we have given you.</p>	<p style="text-align: right;">Page 108</p> <p>1 all of them do that?</p> <p>2 BY MR. OTTAWAY:</p> <p>3 Q. Yes.</p> <p>4 A. No. I mean, we have seen slings</p> <p>5 that don't do that.</p> <p>6 Q. Okay. Tell me who manufactured</p> <p>7 those slings.</p> <p>8 A. Who manufactures the slings that</p> <p>9 don't roll?</p> <p>10 Q. Yes.</p> <p>11 A. Well, for example, the -- most of</p> <p>12 the TVT type slings that we look at, they don't</p> <p>13 roll. They sit straight.</p> <p>14 Q. Well, no. My question was</p> <p>15 specifically limited to transobturator slings.</p> <p>16 A. Well, the TVT-Os we have looked at,</p> <p>17 they roll and they cause problems. And I told</p> <p>18 you we don't use TOTs anymore.</p> <p>19 Q. Okay. Well, have you done a study,</p> <p>20 though, of TOTs in the same way that you have</p> <p>21 looked at TVT-Os to determine whether they roll,</p> <p>22 fray, curl?</p> <p>23 A. Uh-huh.</p> <p>24 Q. Tell me what you found.</p>
<p style="text-align: right;">Page 107</p> <p>1 Q. Okay. You have an opinion, Doctor,</p> <p>2 that the TVT-O is defective in design.</p> <p>3 Exactly what defects in design do</p> <p>4 you reference?</p> <p>5 A. Well, one thing we had talked about</p> <p>6 earlier is just the weave of the mesh, where the</p> <p>7 opening surgeon in the removal of the sheet, the</p> <p>8 sling frays and so cords and so that would change</p> <p>9 the properties of the mesh.</p> <p>10 Q. Okay. Is that a -- is that a</p> <p>11 function of it being made out of polypropylene?</p> <p>12 A. It's a function of design.</p> <p>13 Q. Okay. Tell me the design function</p> <p>14 that it results from. Tell me what specifically</p> <p>15 about the design you're critical of.</p> <p>16 A. Well, the fact that it's coils.</p> <p>17 It's ropes. It doesn't stay flat. The way the</p> <p>18 fact that it has edges that fray, you know.</p> <p>19 Those are the design flaws.</p> <p>20 Q. Okay. Does the -- is this a common</p> <p>21 characteristic of all transobturator slings, both</p> <p>22 inside-out and outside-in?</p> <p>23 MS. THOMPSON: Object to form.</p> <p>24 THE WITNESS: So you're asking if</p>	<p style="text-align: right;">Page 109</p> <p>1 A. Well, the -- I think that both TOTs</p> <p>2 and TVT-Os can behave the same to some degree.</p> <p>3 The -- the ones that I have looked at have been</p> <p>4 the TVT-O and the Bard product, and I know those</p> <p>5 ones roll and cause issues.</p> <p>6 Q. Okay. Any others that you've looked</p> <p>7 at?</p> <p>8 A. There are some others, but off the</p> <p>9 top of my head, I would say that we have looked</p> <p>10 at some Boston Scientific products that also do</p> <p>11 the same thing. Their transobturator. So those</p> <p>12 are the three I can think of.</p> <p>13 Q. So TVT-O is not unique in that</p> <p>14 regard?</p> <p>15 MS. THOMPSON: Object to form.</p> <p>16 THE WITNESS: The TVT-O probably</p> <p>17 is not unique in that regard, and but we</p> <p>18 are not using TOTs or TVT-Os.</p> <p>19 BY MR. OTTAWAY:</p> <p>20 Q. Doctor, if you can go to page 26 of</p> <p>21 your report. Middle paragraph starts "There</p> <p>22 are." Are you with me?</p> <p>23 A. Sure.</p> <p>24 Q. Okay. Tell me what in your opinion</p>

<p style="text-align: right;">Page 110</p> <p>1 would have provided a safer alternative.</p> <p>2 A. Well, in our practice, we are</p> <p>3 basically using the retropubic devices. We're</p> <p>4 using the TVT type devices.</p> <p>5 Q. TVT devices manufactured by Ethicon?</p> <p>6 A. Ethicon, Boston Scientific. You</p> <p>7 know, depends on what the hospital is providing</p> <p>8 us.</p> <p>9 Q. So when you say "safer alternative,"</p> <p>10 you mean retropubic TVT devices?</p> <p>11 A. Yeah, that's the --</p> <p>12 MS. THOMPSON: Object to form.</p> <p>13 THE WITNESS: Those are the safer</p> <p>14 things.</p> <p>15 MR. OTTAWAY: You have to let her</p> <p>16 get her objection out, Doctor.</p> <p>17 Do you have an objection,</p> <p>18 counsel?</p> <p>19 MS. THOMPSON: Object. Yeah, I</p> <p>20 object to form.</p> <p>21 MR. OTTAWAY: Thank you.</p> <p>22 BY MR. OTTAWAY:</p> <p>23 Q. You may answer, Doctor. I'm sorry.</p> <p>24 If you can remember the question?</p>	<p style="text-align: right;">Page 112</p> <p>1 MS. THOMPSON: Object to form.</p> <p>2 BY MR. OTTAWAY:</p> <p>3 Q. -- when it comes to safety and</p> <p>4 efficacy?</p> <p>5 A. I'm aware of literature that say</p> <p>6 they are not equivalent.</p> <p>7 Q. That wasn't my question again,</p> <p>8 Doctor.</p> <p>9 If you can answer my question. I</p> <p>10 appreciate your answer, but can you answer my</p> <p>11 question?</p> <p>12 A. Yes, there is literature saying that</p> <p>13 depending on the end point that they were looking</p> <p>14 at, those end points are equivalent.</p> <p>15 Q. Okay. Thank you.</p> <p>16 I noticed here at the last page of</p> <p>17 your report that you've already told us that</p> <p>18 you've stopped using TVT-O; correct?</p> <p>19 A. Uh-huh. True.</p> <p>20 Q. Are you aware of any academic center</p> <p>21 currently using TVT-O?</p> <p>22 A. No, but that doesn't mean somebody</p> <p>23 out there is not using it.</p> <p>24 Q. Have you made any effort to search</p>
<p style="text-align: right;">Page 111</p> <p>1 A. Yeah. So we have -- we have moved</p> <p>2 to the more retropubic slings.</p> <p>3 Q. Okay.</p> <p>4 A. And we don't have TVT-Os on the</p> <p>5 shelf.</p> <p>6 Q. Okay. And those include TVT devices</p> <p>7 made by Ethicon?</p> <p>8 A. TVT devices by -- made by Ethicon.</p> <p>9 Q. Okay. And when you say "safer</p> <p>10 alternative," that's what you mean?</p> <p>11 MS. THOMPSON: Object to form.</p> <p>12 THE WITNESS: That's what we are</p> <p>13 using now.</p> <p>14 BY MR. OTTAWAY:</p> <p>15 Q. Okay. Well, no. I'm asking you if</p> <p>16 that is the safer alternative you're referencing</p> <p>17 at page 26 of your report?</p> <p>18 A. Yes. We are avoiding transobturator</p> <p>19 space and going to retropubic in appropriate</p> <p>20 patients.</p> <p>21 Q. Okay. Is there medical literature,</p> <p>22 Doctor, of what you're aware in peer-reviewed</p> <p>23 journals which suggests that TVT devices and</p> <p>24 TVT-O devices are equivalent --</p>	<p style="text-align: right;">Page 113</p> <p>1 and find out that information?</p> <p>2 A. The people I have talked to and the</p> <p>3 people who are within my communication space are</p> <p>4 not using it, but it doesn't mean somebody out</p> <p>5 there is not.</p> <p>6 Q. Okay. Even in an academic center?</p> <p>7 A. True.</p> <p>8 MR. OTTAWAY: How are we doing on</p> <p>9 time, Mr. Videographer?</p> <p>10 THE VIDEOGRAPHER: Nine minutes</p> <p>11 to go.</p> <p>12 MR. OTTAWAY: All right. Good.</p> <p>13 We'll finish out the nine minutes then.</p> <p>14 BY MR. OTTAWAY:</p> <p>15 Q. You have reviewed the IFU for TVT-O,</p> <p>16 Doctor?</p> <p>17 A. Yes, I did.</p> <p>18 Q. When you were performing TVT-O</p> <p>19 surgeries, had you reviewed it prior to doing</p> <p>20 them?</p> <p>21 A. Yes.</p> <p>22 Q. Did you also conduct your own review</p> <p>23 of literature to determine how other people were</p> <p>24 doing with the TVT-O or TOT device?</p>

<p style="text-align: right;">Page 114</p> <p>1 A. I believe when we started using</p> <p>2 either of them, you know, we reviewed the</p> <p>3 available literature and we read the IFU.</p> <p>4 Q. And that's why you say you practice</p> <p>5 evidence-based medicine; correct? Because that's</p> <p>6 something you do, review the literature before</p> <p>7 you start using a product?</p> <p>8 MS. THOMPSON: Object to form.</p> <p>9 THE WITNESS: We review the</p> <p>10 literature and read the IFU before we use</p> <p>11 the product.</p> <p>12 BY MR. OTTAWAY:</p> <p>13 Q. But you don't do one to the</p> <p>14 exclusion of the other; correct?</p> <p>15 A. True.</p> <p>16 Q. And you would expect other doctors</p> <p>17 sharing your specialty to do the same. True?</p> <p>18 MS. THOMPSON: Object to form.</p> <p>19 THE WITNESS: True.</p> <p>20 BY MR. OTTAWAY:</p> <p>21 Q. Now, you talk about adverse</p> <p>22 reactions that are listed in the IFU.</p> <p>23 A. What page?</p> <p>24 Q. I'm not trying to fool you here,</p>	<p style="text-align: right;">Page 116</p> <p>1 A. Well, the IFU says transitory local</p> <p>2 irritation and transitory foreign body response,</p> <p>3 which is what you expect the body to do when it's</p> <p>4 healing. So I really think that Ethicon</p> <p>5 minimized the extent of the problems that was</p> <p>6 occurring in the body.</p> <p>7 Q. And were those problems noted in the</p> <p>8 literature to which you've referred?</p> <p>9 A. So the question is?</p> <p>10 Q. Well, you've talked about the IFU,</p> <p>11 and I know you disagree with the way it's worded.</p> <p>12 A. Uh-huh.</p> <p>13 Q. But regardless of how it's worded,</p> <p>14 was that information available in the</p> <p>15 peer-reviewed literature that you've referenced?</p> <p>16 You've said you've looked at</p> <p>17 peer-reviewed literature and the IFU.</p> <p>18 MS. THOMPSON: Object to form of</p> <p>19 the question.</p> <p>20 THE WITNESS: In terms of TVT-O?</p> <p>21 BY MR. OTTAWAY:</p> <p>22 Q. Yes.</p> <p>23 MS. THOMPSON: I'm sorry. And</p> <p>24 misstates his previous testimony.</p>
<p style="text-align: right;">Page 115</p> <p>1 Doctor. It's page 24 of your report if you want</p> <p>2 to go to it.</p> <p>3 A. Okay.</p> <p>4 Q. What adverse reactions are listed in</p> <p>5 the IFU?</p> <p>6 A. So you want me to pull out the IFU?</p> <p>7 Q. You're free to refer to it, Doctor.</p> <p>8 If you can't tell me without referring to it, of</p> <p>9 course you can.</p> <p>10 A. Okay. (Reviewing document).</p> <p>11 So we have the warning and</p> <p>12 precautions and the adverse reactions section.</p> <p>13 What's your question about it?</p> <p>14 Q. For example, is nerve pain</p> <p>15 mentioned?</p> <p>16 A. Yes.</p> <p>17 Q. We discussed scarring previously.</p> <p>18 As a physician, did you know</p> <p>19 scarring was a potential?</p> <p>20 A. Yes.</p> <p>21 Q. Did you know inflammatory or foreign</p> <p>22 body reaction was a potential?</p> <p>23 A. With the TVT-O insertion?</p> <p>24 Q. Yes.</p>	<p style="text-align: right;">Page 117</p> <p>1 BY MR. OTTAWAY:</p> <p>2 Q. She has to get it all out, Doctor,</p> <p>3 and she's entitled to.</p> <p>4 A. Yeah, in terms of the TVT-O being a</p> <p>5 new device, we went with the literature and IFU.</p> <p>6 Q. Okay. Now, you talk about some of</p> <p>7 the adverse reactions on page 25 of your report?</p> <p>8 A. Sure.</p> <p>9 Q. Chronic pain. Is there a difference</p> <p>10 between chronic pain and chronic pain syndromes?</p> <p>11 A. Yes.</p> <p>12 Q. Okay. Tell me the difference.</p> <p>13 A. Chronic pain is -- can be localized.</p> <p>14 Chronic pain syndrome can be a constellation of</p> <p>15 different systems.</p> <p>16 Q. And which are you referring to here</p> <p>17 when you say "adverse reactions"?</p> <p>18 A. Could be both.</p> <p>19 Q. Okay. So it could be both.</p> <p>20 And are both noted and contained in</p> <p>21 the peer-reviewed literature? Supported by the</p> <p>22 peer-reviewed literature?</p> <p>23 A. In terms of?</p> <p>24 Q. TVT-O.</p>

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<p>1 A. TVT-O? Well, this comes from the</p> <p>2 IFU.</p> <p>3 Q. Okay. How about chronic</p> <p>4 inflammation of tissue surrounding mesh?</p> <p>5 A. What about it?</p> <p>6 Q. Is -- are you able to find that in</p> <p>7 the peer-reviewed literature?</p> <p>8 A. Yes.</p> <p>9 Q. Scar plate formation, scar banding,</p> <p>10 contraction of mesh arms. Are you able to find</p> <p>11 that in the peer-reviewed literature?</p> <p>12 A. Yes.</p> <p>13 Q. Erosion of mesh and bladder into the</p> <p>14 bladder and recurrent exposure of mesh in the</p> <p>15 vagina. Are you able to find that in the</p> <p>16 literature?</p> <p>17 A. Yes.</p> <p>18 Q. By the way, are you able to find</p> <p>19 references to that with reference to just TVT</p> <p>20 meshes in the literature?</p> <p>21 A. Which one?</p> <p>22 Q. The four we just mentioned.</p> <p>23 A. The mesh in the bladder?</p> <p>24 Q. Yes.</p>	<p>1 were on page 25. If you'll flip over to page 26,</p> <p>2 first paragraph, and then we'll come back to 25</p> <p>3 because I wanted to get at this.</p> <p>4 A. Sure.</p> <p>5 Q. You reference in that paragraph:</p> <p>6 "Information known to Ethicon from</p> <p>7 internal documents."</p> <p>8 Do you see that?</p> <p>9 A. First paragraph?</p> <p>10 Q. Page 26.</p> <p>11 A. (Reading document).</p> <p>12 Q. Fourth sentence.</p> <p>13 A. Oh, we're talking about the</p> <p>14 reference 26 or --</p> <p>15 Q. Yes. Yes.</p> <p>16 A. Okay. So what's the question?</p> <p>17 Q. Okay. I want to know if this</p> <p>18 information known to Ethicon from internal</p> <p>19 documents is contained within the same documents</p> <p>20 that we showed you before in Exhibit 2 or if</p> <p>21 you're referring to something else there.</p> <p>22 A. Cannot find the sentence you're</p> <p>23 talking. Let me just see.</p> <p>24 Q. Starts with "These" in sentence or</p>
Page 119	Page 121
<p>1 A. Yes. Yeah.</p> <p>2 Q. So those four would be applicable to</p> <p>3 TVT-O and TVT; correct?</p> <p>4 A. TVT-O. This is all about TVT-O.</p> <p>5 Q. My question is, though: Are those</p> <p>6 same things noted in the literature for TVT mesh?</p> <p>7 A. I have to look at the IFU.</p> <p>8 Q. Okay. We are about run out of tape,</p> <p>9 Doctor. So we'll let the videographer take a</p> <p>10 break and you can take a break and we'll come</p> <p>11 back --</p> <p>12 A. Okay.</p> <p>13 Q. -- for our last session?</p> <p>14 A. Great.</p> <p>15 Q. Fair enough?</p> <p>16 THE VIDEOGRAPHER: Time now is</p> <p>17 12:50. We are going off the record.</p> <p>18 (Recess - 12:50 p.m. - 1:01 p.m.)</p> <p>19 THE VIDEOGRAPHER: The time now</p> <p>20 is 1:01. We are back on the record.</p> <p>21 BY MR. OTTAWAY:</p> <p>22 Q. Are you ready to go again, Doctor?</p> <p>23 A. Yes, sir.</p> <p>24 Q. All right. If you'll look at -- we</p>	<p>1 line 3.</p> <p>2 A. Page 26; right?</p> <p>3 Q. Page 26, line 3. Starting -- the</p> <p>4 sentence starting "These." You'll notice</p> <p>5 something --</p> <p>6 A. "These statements are misleading and</p> <p>7 inaccurate"; right? "Based on the information."</p> <p>8 Q. Right. That's what I'm asking.</p> <p>9 "Information known to Ethicon from</p> <p>10 internal documents."</p> <p>11 Do you see that?</p> <p>12 A. Yes.</p> <p>13 Q. And are those internal documents the</p> <p>14 same ones we referred to earlier, or are you</p> <p>15 referring to other documents?</p> <p>16 A. No, we are -- I'm -- I'm referring</p> <p>17 to the documents that we have here in one of the</p> <p>18 exhibits.</p> <p>19 Q. Exhibit 2, I believe.</p> <p>20 A. Exhibit 2 and also the references</p> <p>21 26.</p> <p>22 Q. Right. To the literature.</p> <p>23 A. Yes.</p> <p>24 Q. The only internal documents you're</p>

<p style="text-align: right;">Page 122</p> <p>1 referring to are the ones we've previously talked 2 about?</p> <p>3 A. Yes.</p> <p>4 Q. All right. Good. I'm sorry. I got 5 diverted there.</p> <p>6 A. No, no. I think we're one sentence 7 off for some reason.</p> <p>8 Q. No problem.</p> <p>9 Doctor, back on page 25 now.</p> <p>10 A. Yes.</p> <p>11 Q. We were discussing -- one, two, 12 three, four -- five bullet points down. We were 13 on the fifth bullet point.</p> <p>14 A. Yes.</p> <p>15 Q. And as I understand your testimony, 16 these are the kinds of adverse reactions, in 17 quotes, that you can find in TVT-O, but they also 18 can be found in other forms of mesh.</p> <p>19 A. True.</p> <p>20 Q. Okay. I'm sorry. I don't know what 21 pudendal means, if I've even said that right.</p> <p>22 So can you tell me, educate me in 23 that regard?</p> <p>24 A. Sure. Pudendal nerve is one of the</p>	<p style="text-align: right;">Page 124</p> <p>1 something that's a potential in any surgery?</p> <p>2 A. Vaginal surgery you mean?</p> <p>3 Q. Yes.</p> <p>4 A. Well, the problem is that with the 5 TVT-O type device, you are utilizing space that 6 has the nerve in it. So that's the space that we 7 normally don't go into. So this kind of nerve 8 damage or neuropathy are not the kind of things 9 that you would see with the normal vaginal 10 surgery.</p> <p>11 A lot of times when we tell our 12 patients that they may have nerve problem when we 13 are doing vaginal surgery for them, we are -- we 14 may be talking about foot drop, leg drop because 15 of the malposition of the leg, not really the 16 nerve issues in the obturator canal or such. Not 17 that with vaginal surgery they cannot happen, 18 they're just very infrequent.</p> <p>19 Q. Okay. So as I understand it, the 20 TVT-O is unique in the regard that it goes 21 through this obturator space; correct? The TVT-O 22 or TOTs?</p> <p>23 A. The devices that utilize that space.</p> <p>24 Q. Okay. When you say "nerve damage or</p>
<p style="text-align: right;">Page 123</p> <p>1 nerves that supplies the clitoris, labia, 2 perineal body, anus.</p> <p>3 Q. Okay.</p> <p>4 A. So that's...</p> <p>5 Q. When you say "pudendal neuralgia or 6 other neuropathies," is that something that's 7 also a potential with any form of mesh?</p> <p>8 A. We are talking in terms of TVT-O.</p> <p>9 Q. Okay. I know -- I know that. Your 10 report is about TVT-O.</p> <p>11 I'm asking you if it also is an 12 adverse reaction associated with other forms of 13 mesh.</p> <p>14 A. It can be associated with the other 15 type of vaginal mesh kits, depending on how they 16 placed -- how they are placed and what space 17 they're utilizing.</p> <p>18 Q. Okay.</p> <p>19 A. So some of the mesh kits, they go to 20 sacrospinous ligament, which is higher point in 21 the nerve versus a transobturator area would be 22 the lower point for some of the ranges.</p> <p>23 Q. Nerve damage or nerve entrapment, 24 scarification, and fibrotic bridging. Is that</p>	<p style="text-align: right;">Page 125</p> <p>1 nerve entrapment," you're trying to limit that to 2 the obturator space?</p> <p>3 A. As it pertains to the TVT-O.</p> <p>4 Q. But nerve damage and nerve 5 entrapment or scarification is common to all 6 surgery and all vaginal surgery, except just not 7 in that area; is that right?</p> <p>8 MS. THOMPSON: Object to scope.</p> <p>9 Object to form.</p> <p>10 THE WITNESS: If you're operating 11 close to the nerves, you can have nerve 12 entrapment problems, just at the nerves 13 that travel in that area. They are not 14 really inside the vagina.</p> <p>15 BY MR. OTTAWAY:</p> <p>16 Q. Okay. The next one, pain with sex 17 or sexual impairment. Is that a potential for 18 any vaginal surgery?</p> <p>19 MS. THOMPSON: Object to form.</p> <p>20 THE WITNESS: The vaginal 21 surgeries who could cause dyspareunia and 22 sexual impairment a lot of times may be 23 associated with narrowing of the vagina or 24 inflammation in the space, and so they</p>

<p style="text-align: right;">Page 126</p> <p>1 could cause pain and discomfort maybe in a 2 different region. 3 BY MR. OTTAWAY: 4 Q. Okay. Is there something unique 5 about TVT-O or TOT devices as it regards 6 dyspareunia or sexual impairment? 7 A. Well, we are talking about the 8 TVT-O, and what we talked about earlier was the 9 fact that the TVT-O and the TOT type devices do 10 curl up, you know, and then you asked me like 11 what other complaints are making them. 12 So that from the -- the sling is 13 going from one issue of PV grain white to the 14 other issue of PV grain white. So... 15 Q. Okay. I want to make sure I 16 understand this. 17 So is there -- because you 18 mentioned -- we're going to talk about deformed 19 curl rope, degraded, fragmented in your next 20 opinion. 21 A. Yeah, they sort of run into each 22 other. 23 Q. Yeah. I'm now referring to the 24 bullet point above it.</p>	<p style="text-align: right;">Page 128</p> <p>1 Encapsulation of mesh. 2 A. Yes. 3 Q. Okay. Is that unique to TVT-O or 4 TOT devices? 5 A. No, it's all the mesh. 6 Q. Okay. Vaginal shortening or 7 tightening stenosis. Is that unique to TVT-O or 8 TOT devices, or is that something that occurs 9 with vaginal surgeries or other meshes? 10 A. Yeah. If the -- any vaginal surgery 11 could cause a stenosis and tightening and 12 shortening, but this is different type of, again, 13 problem with that bridging that we talked about. 14 Q. Okay. What is it that causes a 15 different type of vaginal shortening, tightening 16 or stenosis? 17 A. So with the stenosis, we are talking 18 about the sling bridge, so to speak, that can be 19 -- can cause issue in term of tightening that 20 space versus if you're talking about a general 21 vaginal surgery for something else. 22 Q. Okay. So would this be unique to 23 TVT-O or TOT devices, or would it be something 24 present with all mesh devices? Potential of all</p>
<p style="text-align: right;">Page 127</p> <p>1 A. Yeah. 2 Q. Dyspareunia and sexual impairment. 3 And my question is: Does that -- is that a 4 potential for all vaginal surgeries? 5 A. Yeah, but then you put TVT and TVT-O 6 together. 7 Q. Okay. And that is what you 8 reference in the next bullet point is you're 9 telling me because, in your opinion, the TVT-O or 10 TOT devices tend to curl, rope, degrade based on 11 your ultrasound examinations? 12 A. Yeah, but that's goes hand in hand 13 with dyspareunia as well. Because -- because 14 they're going from one side to the other, they 15 sort of cause this bridge as well. 16 Q. Okay. 17 A. That can. So they behave 18 differently from TV -- from TVT type devices. 19 Q. Okay. So in that one there's, in 20 your mind, some difference between the TVT-O or 21 TOT devices and standard TVT matter? 22 A. Well, they're anatomically in 23 different spaces. 24 Q. Okay. Next bullet point.</p>	<p style="text-align: right;">Page 129</p> <p>1 mesh devices? 2 A. We are -- here we are talking about 3 TVT-O -- 4 Q. Okay. 5 A. -- on this sentence. 6 Q. Infection. Is that unique to TVT-O 7 or TOT devices or something you can see with all 8 mesh? 9 A. Well, when things settle down, you 10 know, you -- bladder infection can be one of the 11 more frequent problems that you can have with 12 TVT-Os. 13 And so can we see with the other 14 type of mesh as well? You can see it with the 15 other type of mesh as well, but it can be a 16 different type of problem. 17 Q. And different in frequency, 18 duration, severity? 19 A. So the -- so if you talk about mesh 20 that's, for example, under the bladder and is 21 coming through or working its way through, you 22 know, you would have vaginal discharge and that 23 type abnormal vaginal discharge would predispose 24 you to -- to bladder infection.</p>

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<p>1 But at the same time, depending on</p> <p>2 how, whether it's a TVT or a mesh that is device</p> <p>3 inserted, you know, if there is any obstruction</p> <p>4 to the -- to the bladder also, you can get UTI.</p> <p>5 So they can melt into each other.</p> <p>6 Q. Okay. What I'm hearing you saying</p> <p>7 is infection -- bladder infections can be present</p> <p>8 with all forms of mesh in addition to TVT-O.</p> <p>9 Is that a correct statement? Is my</p> <p>10 statement correct?</p> <p>11 A. Well, theoretically, you should not</p> <p>12 have it as much with mesh --</p> <p>13 Q. Okay.</p> <p>14 A. -- itself but more with the TVT-O.</p> <p>15 Q. Okay. So that's a question of</p> <p>16 frequency, I guess?</p> <p>17 A. Uh-huh. True.</p> <p>18 Q. Both can do it, but in your</p> <p>19 judgment, TVT-O or TOT devices do it more often?</p> <p>20 A. Repeat that question. Sorry about</p> <p>21 that. Do you want to?</p> <p>22 Q. Well, yeah, it's all right.</p> <p>23 A. Just make sure.</p> <p>24 Q. I want to make sure we communicate</p>	<p>1 with the TVT-Os, if they're roping and rolling</p> <p>2 and they're a tube type and they're causing</p> <p>3 outflow problems to the bladder, they can also</p> <p>4 contribute to the bladder infection.</p> <p>5 Q. Okay. And this roping and rolling</p> <p>6 you're discussing, is that, in your opinion,</p> <p>7 unique to TVT-O or TOT devices?</p> <p>8 A. They are more often seen in those</p> <p>9 conditions.</p> <p>10 Q. Okay. So not unique but more</p> <p>11 frequent. Fair?</p> <p>12 A. The -- so we are talking about the</p> <p>13 roping and curling of the tissue?</p> <p>14 Q. Yes.</p> <p>15 A. Yeah. I mean, just because of the</p> <p>16 anatomy going from side to side, you see that.</p> <p>17 Q. More frequently? I mean, it's a</p> <p>18 question of frequency? Not that it doesn't rope</p> <p>19 or roll in other meshes, it's just more frequent</p> <p>20 in?</p> <p>21 A. Well, that's the condition that we</p> <p>22 have seen it in.</p> <p>23 Q. Okay.</p> <p>24 A. So...</p>
Page 131	Page 133
<p>1 so that you know that when you've answered my</p> <p>2 question, you've answered it with your opinion.</p> <p>3 Fair enough?</p> <p>4 A. Well, I just want to make sure you</p> <p>5 understand what I said.</p> <p>6 Q. Yes. Yeah. What I'm understanding</p> <p>7 you to say is: Infection can result from any</p> <p>8 mesh. Vaginal infection can result from any</p> <p>9 mesh.</p> <p>10 A. Uh-huh.</p> <p>11 Q. But in your opinion, urinary tract</p> <p>12 infections or bladder infections would be more</p> <p>13 common with TVT-O than with TVT mesh?</p> <p>14 A. Yeah. The thing is that their</p> <p>15 mechanisms can be different, too.</p> <p>16 Q. Okay. And that's --</p> <p>17 A. That's what I was trying to stress.</p> <p>18 Q. Yeah. Tell me about how their</p> <p>19 mechanisms can be different.</p> <p>20 A. Well, what I was saying is that with</p> <p>21 the vaginal meshes that are placed, you know, if</p> <p>22 they're coming through and they're causing</p> <p>23 vaginal discharge, that would be the contributing</p> <p>24 factor. And that's true for TVT-O as well, but</p>	<p>1 Q. I'm still not sure I got the answer</p> <p>2 there.</p> <p>3 Do you see roping and rolling in</p> <p>4 other forms of mesh other than TVT-O and TOT?</p> <p>5 A. That's where we have seen it. You</p> <p>6 know, I mean, if somebody puts a TVT and they are</p> <p>7 placed in a very tight manner, you know, I guess</p> <p>8 they could do that, but we don't see that as</p> <p>9 frequently versus with the TOT and TVT-O we do</p> <p>10 see that.</p> <p>11 Q. So it is a question of frequency.</p> <p>12 That's what I'm trying to get at.</p> <p>13 A. Yeah.</p> <p>14 Q. Okay. De novo urinary symptoms. Is</p> <p>15 that something unique to TVT-O or TOT devices or</p> <p>16 something that is present in as a potential in</p> <p>17 vaginal surgery or mesh surgeries in general?</p> <p>18 A. De novo urinary symptoms could be</p> <p>19 associated with both TVT-O and TVT type slings.</p> <p>20 Q. Okay. Hypspareunia. What do you</p> <p>21 mean by hypspareunia, in quotes?</p> <p>22 A. Again, because of the anatomy and</p> <p>23 the way that the sling would travel causing that</p> <p>24 bridge or scarring. As male tries to enter and</p>

<p style="text-align: right;">Page 134</p> <p>1 have intercourse, they have pain.</p> <p>2 Q. And is that something unique to</p> <p>3 TVT-O or TOT devices or can that be present with</p> <p>4 any TVT or mesh device?</p> <p>5 A. The location would be different,</p> <p>6 depending on where you have the problem.</p> <p>7 Q. Okay. Other than location?</p> <p>8 A. So the presentation would be</p> <p>9 different for TVT-O device versus something that</p> <p>10 is placed deeper.</p> <p>11 Q. Okay. Explain that to me, if you</p> <p>12 will. I want to understand.</p> <p>13 A. So if you have a mesh under the</p> <p>14 bladder or over the rectum and it's working</p> <p>15 through, so the male can enter, but they would go</p> <p>16 halfway in, and they feel the mesh then and that</p> <p>17 would hurt them versus with the TVT-O is very</p> <p>18 much, you know, closer to the outside. So they</p> <p>19 would feel it. They cannot get very far.</p> <p>20 Q. Okay. So it would be a question of</p> <p>21 location within the vagina then?</p> <p>22 A. Yes.</p> <p>23 Q. Thank you. I think I understand.</p> <p>24 Is there any difference in the</p>	<p style="text-align: right;">Page 136</p> <p>1 I asked you: Do you hold yourself</p> <p>2 out as an expert in biomaterials?</p> <p>3 A. I'm not a biomaterial engineer.</p> <p>4 Q. All right. Doctor, I'd like to ask</p> <p>5 you a question. If you want to refer to page 27,</p> <p>6 but it's referred to in several pages in your</p> <p>7 report.</p> <p>8 What is your definition of a</p> <p>9 "community doctor"?</p> <p>10 A. A community doctor? Where do I --</p> <p>11 ah, I see here.</p> <p>12 Community doctors are physicians who</p> <p>13 are working in the community. Probably</p> <p>14 physicians in nonacademic centers.</p> <p>15 Q. And would they be gynecologists,</p> <p>16 urogynecologists?</p> <p>17 A. Or -- or physicians in a non- --</p> <p>18 non-tertiary type health centers.</p> <p>19 Q. Would they be doctors who had access</p> <p>20 to the same reference material that you refer to</p> <p>21 in your Exhibit B to your report?</p> <p>22 A. They would have access to it, but</p> <p>23 remember, for me I'm always reading articles</p> <p>24 continuously where those physicians may have</p>
<p style="text-align: right;">Page 135</p> <p>1 chemical composition of the polypropylene used in</p> <p>2 TVT-O and TVT mesh made by Ethicon that you're</p> <p>3 aware of?</p> <p>4 MS. THOMPSON: Object to form.</p> <p>5 The TVT-O compared to TVT or TVT-O and TVT</p> <p>6 compared to other mesh?</p> <p>7 MR. OTTAWAY: I actually asked</p> <p>8 the question TVT-O and TVT manufactured by</p> <p>9 Ethicon, I believe.</p> <p>10 THE WITNESS: So comparing TVT-O</p> <p>11 to --</p> <p>12 MS. THOMPSON: Object to the form</p> <p>13 of the question.</p> <p>14 THE WITNESS: -- TVT? They're</p> <p>15 both polypropylene.</p> <p>16 BY MR. OTTAWAY:</p> <p>17 Q. Okay. Are you aware of any</p> <p>18 differences in the chemical makeup of the two?</p> <p>19 A. I think they are both polypropylene.</p> <p>20 Q. Okay. And do you hold yourself out</p> <p>21 as an expert in biomaterials?</p> <p>22 A. I know as much as it pertains to my</p> <p>23 work.</p> <p>24 Q. Again, that wasn't my question.</p>	<p style="text-align: right;">Page 137</p> <p>1 certain societies they belong to or they would --</p> <p>2 they may read one or the other journal.</p> <p>3 Q. They can be doctors who are</p> <p>4 specializing in your specialty? Members of the</p> <p>5 same societies you're members of?</p> <p>6 A. So are there community physicians</p> <p>7 who are urogynecologists? There are community</p> <p>8 urogynecologists as well.</p> <p>9 Q. Now, the reason I ask that is</p> <p>10 because if you'll go to page 22?</p> <p>11 A. Uh-huh.</p> <p>12 Q. The second sentence on that page.</p> <p>13 That phrase "doctors in the community." Not</p> <p>14 community doctors, but "Doctors in the</p> <p>15 community --</p> <p>16 A. Uh-huh.</p> <p>17 Q. -- are often unaware of the risks of</p> <p>18 mesh."</p> <p>19 You see that sentence?</p> <p>20 A. I see that.</p> <p>21 Q. Are you aware of any study that</p> <p>22 supports that opinion? It's not referenced to</p> <p>23 anything.</p> <p>24 A. Well, I think we draw that from our</p>

<p style="text-align: right;">Page 138</p> <p>1 studies where we were in Oklahoma at a tertiary 2 care center, and we did a study where we saw 75 3 percent of patients who came to us with mesh 4 complications with the sling complications. 5 They -- when we asked them who 6 referred you to us, they said, you know, we -- I 7 came here based on the referral from a friend or 8 the church. And when we talked to the 9 physicians, they were like OB-GYNs, know this was 10 a problem. So it's actually documented in the 11 literature how -- how these mesh complications 12 may be seen, but most often they are told that 13 maybe just give the patient estrogen and it would 14 go away and it would end. 15 Q. Is estrogen an accepted form of 16 therapy for some mesh complications? 17 A. You know, to the -- this type of 18 mesh complications pertaining to TVT-O and such 19 was something that I think crept up on the 20 community, and a lot of times neither the 21 community physicians nor us knew how to deal with 22 them. 23 I mean, they came about and we were 24 looking at ways to take care of the mesh problem,</p>	<p style="text-align: right;">Page 140</p> <p>1 the community? 2 A. It was pretty much a media blast. 3 So whoever followed that probably learned about 4 it quickly. 5 Q. And so your statement, 6 "Unfortunately, doctors in the community are 7 often not aware of the risks of mesh" would 8 predate 2008? 9 MS. THOMPSON: Object to form. 10 THE WITNESS: Well, the study 11 that we did was after that time. So 12 doesn't seem like that filtrated into the 13 community. 14 BY MR. OTTAWAY: 15 Q. And did you try to in your study -- 16 and please refer me to the study you're 17 referencing if it's in your materials there. 18 A. Sure. 19 Q. I'd like to know which study it is. 20 A. Uh-huh. It's the -- in the Oklahoma 21 Medical Journal. I don't know what year it was, 22 whether it's 2012 or '13. So... 23 Q. Okay. Did you make an effort in 24 that study to determine whether this statement</p>
<p style="text-align: right;">Page 139</p> <p>1 take care of the sling erosion problem 2 nonsurgically. We did try estrogen and you may 3 find references in the literature that it was 4 advocated at one point, but it really fell out of 5 favor because it just didn't work. 6 Q. Okay. There was an FDA paper you 7 reference in your report issued in 2008. 8 A. Okay. 9 Q. Are you aware of that? 10 A. Yes. 11 Q. Did that FDA paper warn of the risks 12 associated with mesh implantation? 13 A. Okay. 14 Q. Did it? 15 A. So what's the question? 16 Q. My question is: Did the FDA 2008 17 paper address the issue of -- 18 A. Yeah, that was the FDA warning, 19 warning of. 20 Q. -- risks of mesh? 21 A. They were -- they were alerting the 22 community of -- of complications associated with 23 the mesh and the sling that they were seeing. 24 Q. Okay. And did that go to doctors in</p>	<p style="text-align: right;">Page 141</p> <p>1 "Doctors in the community are not aware of the 2 risks of mesh" was post or pre-2008, the 3 implantation? 4 A. The study was done in 2012, '13, 5 whenever it was published. So, I mean, you can 6 draw a conclusion. If the warning came in 2008 7 and the study is published a few years later 8 whether the physicians really got the message or 9 not. I think that the -- you know, they -- they 10 didn't refer us the patients and it doesn't seem 11 like they were aware of the mesh problems that 12 was going on. Whether -- yeah, go ahead. 13 Q. No, go ahead. Finish your answer, 14 please. 15 A. So the study basically said about 75 16 percent of people were self-referred but not 17 referred by the surgeon who did their surgery. 18 Q. And it's from that study you 19 determined that "Doctors in the community are 20 often not aware of the risks of mesh"? 21 A. That's -- that's the -- that's what 22 we have observed. 23 Q. And did that study -- and again, you 24 know, I know the study you're referencing on that</p>

<p style="text-align: right;">Page 142</p> <p>1 one.</p> <p>2 A. Uh-huh.</p> <p>3 Q. Did that make any effort to</p> <p>4 determine whether the mesh was implanted pre or</p> <p>5 post the FDA 2008 advisory?</p> <p>6 A. I see what you're asking.</p> <p>7 So these are the patients who -- I</p> <p>8 mean, they could have had their mesh implanted</p> <p>9 before that as well. We didn't look at the exact</p> <p>10 date of implantation.</p> <p>11 Q. Okay. Now, the last point I want to</p> <p>12 discuss with you -- because we're running out of</p> <p>13 time, and I want to take one very brief break for</p> <p>14 about 10 minutes left to make sure I got</p> <p>15 everything but -- is your opinion that TVT-O or</p> <p>16 TOT devices are more difficult to remove than</p> <p>17 other forms of TVT mesh.</p> <p>18 Tell me about your opinion in that</p> <p>19 regard.</p> <p>20 A. So it, again, goes to the matter of</p> <p>21 the space utilized to put those slings in. So if</p> <p>22 we had a TVT mesh, if you want to remove the</p> <p>23 whole thing, you could go retropubically,</p> <p>24 transvaginally and you could be pretty sure that</p>	<p style="text-align: right;">Page 144</p> <p>1 if it's pain issue, groin pain issue, leg pain</p> <p>2 that is radiating from the obturator territory.</p> <p>3 You know, the -- if that was really the thing</p> <p>4 that I was worried about, then, you know, I would</p> <p>5 probably sit with the patient and tell them if</p> <p>6 that's the issue, then I would have to make that</p> <p>7 groin incision and approach it that way to make</p> <p>8 sure we get everything. But it's -- it's one of</p> <p>9 those things that adds time to the surgery.</p> <p>10 Q. So in your case, you can get it. It</p> <p>11 just adds a little more time to the surgery?</p> <p>12 A. Not a little time --</p> <p>13 MS. THOMPSON: Object to the</p> <p>14 form.</p> <p>15 BY MR. OTTAWAY:</p> <p>16 Q. That's fine. She got her right to</p> <p>17 object.</p> <p>18 A. No. It probably takes about an hour</p> <p>19 on each side.</p> <p>20 Q. Okay. It adds an hour more?</p> <p>21 A. On each side.</p> <p>22 Q. Per side?</p> <p>23 A. Yeah.</p> <p>24 Q. Anything else?</p>
<p style="text-align: right;">Page 143</p> <p>1 you could remove 100 percent of it.</p> <p>2 With the transobturator tape or the</p> <p>3 TVT-O, as we discussed, your arm of the sling</p> <p>4 goes lateral and behind the bone and disappears.</p> <p>5 So most skilled surgeons -- again,</p> <p>6 has been a learning cycle for a lot of people who</p> <p>7 were not used to this area -- that's as far as</p> <p>8 they can go. So there is inevitably some mesh</p> <p>9 left in a patient where they can come back and</p> <p>10 say, I still have a problem there.</p> <p>11 Q. Okay. How about in your experience,</p> <p>12 are you able to access and remove that mesh?</p> <p>13 A. I -- I try to remove as much as I</p> <p>14 can, but I -- because you get into such a</p> <p>15 difficult space, most often that's where we will</p> <p>16 stop. You know, because then the idea of having</p> <p>17 to go through the groin to approach that space</p> <p>18 is -- it's very challenging as well.</p> <p>19 Q. Now, having removed the mesh other</p> <p>20 than the mesh you've just described, what</p> <p>21 consequences would result from leaving just that</p> <p>22 portion of the mesh in?</p> <p>23 A. Well, the patient is coming to you</p> <p>24 for pain, mesh complications problems, especially</p>	<p style="text-align: right;">Page 145</p> <p>1 A. To remove that mesh?</p> <p>2 Q. Yes.</p> <p>3 A. Well, you may be left with the</p> <p>4 consequences that despite you doing all that</p> <p>5 surgery, the nerve is still scarred and the pain</p> <p>6 wouldn't go away.</p> <p>7 Q. Have you done a study, Doctor, to</p> <p>8 determine the percentage of patients or can you</p> <p>9 refer to one in the literature that you rely upon</p> <p>10 today --</p> <p>11 A. Uh-huh.</p> <p>12 Q. -- that discusses the percentage of</p> <p>13 patients who will have that residual mesh or</p> <p>14 suffer a consequence from it?</p> <p>15 MS. THOMPSON: Object to form.</p> <p>16 THE WITNESS: Pardon me?</p> <p>17 MS. THOMPSON: Object to form of</p> <p>18 that question.</p> <p>19 THE WITNESS: Yeah.</p> <p>20 MS. THOMPSON: It's compound.</p> <p>21 THE WITNESS: Yeah, there are</p> <p>22 studies -- again if you want me to name it,</p> <p>23 I have to look at the whole article and</p> <p>24 find it for you. But there are studies</p>

<p style="text-align: right;">Page 146</p> <p>1 showing that most people who are taken to 2 the operating room for removal of mesh are 3 taken to the operating room more than one 4 time for that mesh removal. 5 BY MR. OTTAWAY: 6 Q. Okay. And does that apply to mesh 7 in general or TVT-O or TOT devices in specific? 8 A. The literature is mixed about that. 9 They put them together, but they're utilizing the 10 same space. 11 Q. Okay. But, again, my question was: 12 I want to know if you have or cite to anything 13 that shows us the number of people who will 14 continue to have difficulties if the mesh you've 15 just talked about -- 16 A. Uh-huh. 17 Q. -- that you have to get at through 18 the groin incision -- 19 A. Uh-huh. 20 Q. -- remains in place. 21 A. Yeah. So -- so the -- our 22 experience is that if the patient comes with 23 groin pain, pain going inside their thigh, etc., 24 their management is different with somebody whose</p>	<p style="text-align: right;">Page 148</p> <p>1 predict whose pain goes away and more likely than 2 not their pain may not go away because of the 3 scarring in that area. 4 Q. Okay. So I want to -- I want to 5 understand what you're telling me here. 6 Are you telling me that more than 50 7 percent of the time their pain will not go away? 8 You take them to surgery, you do 9 everything you've just described, and it doesn't 10 help a bit. 11 MS. THOMPSON: Object to form. 12 THE WITNESS: True. 13 BY MR. OTTAWAY: 14 Q. Okay. And have you published those 15 results or have others published results that are 16 consistent with that? 17 A. I have to look. I recall having 18 seen things in the literature, but I have to 19 search for it. 20 Q. Okay. You can't just tell me that 21 it's in your reliance materials in B? 22 A. I generally use a computer program 23 to look these things up. That's why looking at 24 this for me is difficult for me.</p>
<p style="text-align: right;">Page 147</p> <p>1 mesh is eroding through. Where if they're 2 eroding through, we go as far as we can and we 3 remove it versus if they have that thigh pain, we 4 truly try to remove all the mesh that there is. 5 Because in our experience, they would come back 6 and they would have the pain. 7 Q. Okay. And having removed all of the 8 mesh there is, what is your experience with the 9 relief of symptoms relating to groin or thigh 10 pain? 11 A. Really mixed because as I said, the 12 nerve can be scarred and there's no way to free 13 it up, but we owe it to the patient who -- who 14 may be facing a life of chronic pain forever to 15 do the best we can to relieve them of pain. 16 Q. Well, my question is: Doctor, 17 having done the best you can, do you have some 18 kind of reference or can you point me to 19 something that tells me what percentage of 20 patients will have their pain relieved and which 21 percentage won't? 22 A. It's my personal experience, my 23 professional opinion that -- that when I take 24 them to the OR and I remove the mesh, we cannot</p>	<p style="text-align: right;">Page 149</p> <p>1 Q. I -- 2 A. This is not the form I created. So, 3 but I can in terms of, you know, in terms of an 4 add to me, I think there was -- I mean, if you 5 really want names, if you go to like TO on 6 page -- let's see. 7 So that's on page 74 of clinical 8 literature reference list where they had a 9 randomized trial of TVT versus TVT-O, and they -- 10 they prematurely aborted this study because they 11 had like 26 percent pain problem. 12 And then the -- if you want names, 13 Spinoso. Let me just see. 14 Q. I want to make sure we're talking 15 about the same thing. 16 I'm talking about people who have 17 had a patient come in -- 18 A. Uh-huh. 19 Q. -- that have had a TVT-O or device 20 that has gone through the obturator space. 21 A. Uh-huh. 22 Q. And the surgeon has gone and removed 23 that device. 24 As I recall, your opinion was that</p>

<p style="text-align: right;">Page 150</p> <p>1 more than half of those patients will continue to 2 have pain, and I want to make sure those studies 3 address that. 4 A. I think -- 5 Q. Or is that just your experience? 6 A. No. I think people like me that 7 have wide disparate understanding and 8 professional experience, not only me. 9 I think if you look at Rogo-Gupta 10 Raaz's paper on page 64, that would -- that would 11 point you to that direction and that opinion. 12 Q. Okay. Anything else? Anybody else 13 that you want to reference that comes to mind as 14 you look through your Exhibit B? 15 A. I think to reinforce the anatomical 16 reliability of the course of physics, if you look 17 at the Spinoso, that would be a good one. That 18 would show you that how variable the course of 19 these TVT-O tapes are. And that would be on page 20 -- where is Spinoso? Page 71. That would be a 21 good one. 22 The -- whatever else? Yep, that's a 23 good one, too. So also if you look on page 33, 24 Hinoul, H-i-n-o-u-l, talks about the anatomical</p>	<p style="text-align: right;">Page 152</p> <p>1 MR. OTTAWAY: Roughly yes. 2 MS. THOMPSON: Okay. We'll take 3 a break and you can come back and do your 4 nine minutes. And then I have some 5 redirect. 6 THE VIDEOGRAPHER: We are going 7 off the record at 1:41. 8 (Recess - 1:41 p.m. - 1:49 p.m.) 9 THE VIDEOGRAPHER: Time now is 10 1:49. We are back on the record. This is 11 the beginning of disk No. 3. 12 BY MR. OTTAWAY: 13 Q. Doctor, you've referenced several 14 times pain associated with TVT-O and TOT devices. 15 And when you referenced that pain, 16 are you specifically referring to leg and groin 17 issues? 18 A. Patients generally start with leg 19 and groin pain. That is supposedly can be 20 transient and then -- but it stays then become 21 chronic. Like any other type of pain, it can -- 22 can become systematic, become chronic pain 23 syndrome. 24 Q. But outside the chronic pain</p>
<p style="text-align: right;">Page 151</p> <p>1 variability and the trajectory of the TVT devices 2 and how they're going into the spaces they 3 shouldn't. 4 So that supports really what we are 5 saying in terms of being in a space where there 6 are nerves and entrapment of the nerve, and 7 scarring and pain that comes with it. 8 Q. Okay. Thank you, Doctor. 9 Take a brief break here and we'll be 10 done in nine minutes. 11 THE VIDEOGRAPHER: Time now is -- 12 MS. THOMPSON: I have -- do you 13 need a break for the tape? I don't have 14 very long if we want to go ahead and go 15 through. 16 MS. FISCHER: We're not finished. 17 We're taking a -- 18 MR. OTTAWAY: No. You can -- as 19 far as I'm concerned -- 20 MS. THOMPSON: Oh, okay. 21 MR. OTTAWAY: -- she can ask and 22 I'll follow up, I mean, for nine minutes. 23 MS. THOMPSON: Okay. You have 24 nine minutes left?</p>	<p style="text-align: right;">Page 153</p> <p>1 syndrome area, we're talking about leg and groin 2 specifically? 3 A. Well, they present in very -- many 4 different variations which go back to question 5 you had, how do you differentiate between 6 different pains? Because you -- if you're lucky, 7 you get them if they just have that pain, but if 8 it has expanded and it includes more systems, 9 then you have to sift through it and see what 10 comes from where. 11 Q. Doctor, you referenced an FDA 2011 12 bulletin in your report. 13 That bulletin doesn't apply to 14 mid-urethral slings used for stress urinary 15 incontinence, does it? 16 MS. THOMPSON: Object to form. 17 THE WITNESS: What's the 18 question? 19 BY MR. OTTAWAY: 20 Q. The report you referenced, the FDA 21 report at 2011 -- 22 A. Uh-huh. 23 Q. -- doesn't refer to mid-urethral 24 slings, does it?</p>

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1 MS. THOMPSON: Object to form.
2 THE WITNESS: I have to look at
3 it. I -- you know, they have had a few
4 warnings.
5 BY MR. OTTAWAY:
6 Q. Okay. You're just not aware without
7 looking at it?
8 A. I know the 2008 one did.
9 Q. Right.
10 A. And they put them together and I
11 know the more recent one that they had didn't,
12 but I'm not quite sure whether it was 2008 or '9.
13 Q. Okay. You talked about patient
14 anatomy, Doctor.
15 Isn't patient anatomy always an
16 issue when you're doing surgery?
17 A. Patient anatomy. I think I was
18 talking about the anatomical region of the
19 body --
20 Q. Right.
21 A. -- not the patient themselves.
22 Q. But isn't patient anatomy something
23 you always consider before you do surgery? It's
24 always a factor, isn't it?

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1 A. Well, as surgeons, we are talking
2 about the anatomical regions of the body. So
3 when you -- you want to be familiar with that
4 area when you do the surgeries.
5 Q. You talked about TVT-O technique --
6 A. Uh-huh.
7 Q. -- being perhaps more difficult for
8 some people.
9 Are you --
10 A. I'm not sure if I said it was more
11 difficult for some people.
12 Q. Do you think it's more difficult?
13 MS. THOMPSON: Object to the form
14 of that.
15 THE WITNESS: To perform it?
16 BY MR. OTTAWAY:
17 Q. Yes.
18 A. Than what?
19 Q. That was my going to be my question.
20 Than what?
21 A. Oh, I see.
22 I think -- so you're --
23 Q. Let me just ask it this way, Doctor.
24 I don't want you to struggle with it.

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1 Let's talk about non-mesh surgical
2 options for the treatment of stress urinary
3 incontinence, such as Burch procedure or other
4 things.
5 Would you consider those more
6 difficult or less difficult than the placement of
7 a TVT-O?
8 A. Depends on the person. I personally
9 can probably do Burches efficiently as TVT or
10 TVT-O.
11 Q. Okay. So to you, it's roughly the
12 same would you --
13 A. Well, depends on your team and
14 depends who you're talking to.
15 Q. Do you have a general idea about
16 which is more difficult?
17 A. In terms of time, probably the Burch
18 would take more time.
19 MR. OTTAWAY: All right. That's
20 all I have right now. I'll reserve
21 whatever time I have remaining.
22 EXAMINATION
23 BY MS. THOMPSON:
24 Q. Okay. I have a few questions for

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1 you, Dr. Shobeiri.
2 A. Okay.
3 MR. OTTAWAY: And I guess let
4 me -- I'm not certainly going to stop you
5 from asking your questions, Margaret, but
6 let me say for purposes of the record,
7 since this is the first one of these we've
8 done, I'm not sure what the protocol is and
9 so I would object to the questioning. But
10 you are certainly free to ask it.
11 MS. THOMPSON: Okay. And I'll
12 tell you that we've never had any
13 restrictions on redirect questioning by --
14 by plaintiff's counsel. So, but your
15 objection is on the record.
16 BY MS. THOMPSON:
17 Q. Dr. Shobeiri, are all of the
18 opinions in your report supported by the
19 peer-reviewed medical literature?
20 A. Yes.
21 Q. And did you provide some examples of
22 that literature supporting your opinions in the
23 body of the report as footnotes?
24 A. Yes. Not everything, but some of

<p style="text-align: right;">Page 158</p> <p>1 them.</p> <p>2 Q. And there are other examples in the</p> <p>3 84-page list of references as well?</p> <p>4 A. Yes.</p> <p>5 Q. So if you would go through the</p> <p>6 report and look at Footnote 2.</p> <p>7 And do those, some of the references</p> <p>8 in Footnote 2, deal with the opinions that</p> <p>9 Mr. Ottaway was asking you about earlier?</p> <p>10 A. True.</p> <p>11 Q. And how about Footnote 3?</p> <p>12 A. True.</p> <p>13 MR. OTTAWAY: Object to the form</p> <p>14 of both those questions, but go ahead.</p> <p>15 BY MS. THOMPSON:</p> <p>16 Q. And --</p> <p>17 MR. OTTAWAY: You may answer,</p> <p>18 Doctor.</p> <p>19 BY MS. THOMPSON:</p> <p>20 Q. Are the opinions that Mr. Ottaway</p> <p>21 asked you about earlier supported by Footnote 5?</p> <p>22 MR. OTTAWAY: Same objection.</p> <p>23 May I have a standing objection, counsel?</p> <p>24 MS. THOMPSON: Uh-huh. You may.</p>	<p style="text-align: right;">Page 160</p> <p>1 A. Yes.</p> <p>2 Q. There were also some specific</p> <p>3 questions regarding literature supporting</p> <p>4 opinions that you gave here today, and I don't</p> <p>5 have those articles with me, but these are all</p> <p>6 contained on your reliance list.</p> <p>7 And would you identify this article,</p> <p>8 please?</p> <p>9 A. Sure. This is the "Salvage Surgery</p> <p>10 After Failed Treatment of Synthetic Mesh Sling</p> <p>11 Complications" by Dr. Blaivas.</p> <p>12 Q. And -- and it's published in what</p> <p>13 journal?</p> <p>14 A. It's -- let me see. This is not the</p> <p>15 -- okay. There we are. Urology.</p> <p>16 Q. And is that a peer-reviewed journal?</p> <p>17 A. That's a peer-reviewed journal.</p> <p>18 Q. Could you just read that last</p> <p>19 sentence of that article?</p> <p>20 A. Yeah. It goes to the point that I</p> <p>21 made earlier that generally mesh sling</p> <p>22 complications repair may require multiple</p> <p>23 surgeries.</p> <p>24 Q. And read the very last sentence of</p>
<p style="text-align: right;">Page 159</p> <p>1 MR. OTTAWAY: Thank you.</p> <p>2 MS. THOMPSON: Because I'm going</p> <p>3 to do several of them.</p> <p>4 MR. OTTAWAY: I know you are. As</p> <p>5 long as you give me a standing objection, I</p> <p>6 won't make it.</p> <p>7 BY MS. THOMPSON:</p> <p>8 Q. Okay.</p> <p>9 A. True.</p> <p>10 Q. And Footnote 7?</p> <p>11 A. Yes.</p> <p>12 Q. Footnote 8?</p> <p>13 A. Yes.</p> <p>14 Q. Footnote 14?</p> <p>15 A. Yes.</p> <p>16 Q. Footnote 17?</p> <p>17 A. Yes.</p> <p>18 Q. Footnote 22?</p> <p>19 A. Yes.</p> <p>20 Q. Footnote 23?</p> <p>21 A. Yes.</p> <p>22 Q. Footnote 25?</p> <p>23 A. Yes.</p> <p>24 Q. And Footnote 26?</p>	<p style="text-align: right;">Page 161</p> <p>1 the conclusions in the main report in the main</p> <p>2 article.</p> <p>3 A. This?</p> <p>4 Q. This last sentence.</p> <p>5 A. So basically what the authors</p> <p>6 concluded was that the most difficult problem to</p> <p>7 treat is pain, with only 28 percent of patients</p> <p>8 with pain considering salvage operation is</p> <p>9 success.</p> <p>10 Q. So does that support your opinion</p> <p>11 that -- that as many as 50 percent of patients</p> <p>12 with pain do not get resolution after surgery to</p> <p>13 remove it?</p> <p>14 A. Yes.</p> <p>15 MR. OTTAWAY: Objection to the</p> <p>16 form of the question.</p> <p>17 BY MS. THOMPSON:</p> <p>18 Q. You also were asked some questions</p> <p>19 about community doctors and their knowledge of</p> <p>20 mesh complications?</p> <p>21 A. Yes.</p> <p>22 Q. And you cited an article that you</p> <p>23 were one of the authors about Oklahoma.</p> <p>24 And are there other articles</p>

<p style="text-align: right;">Page 162</p> <p>1 that address that same issue that you're aware 2 of?</p> <p>3 A. Yes.</p> <p>4 Q. For example, could you identify this 5 article that is also on your reliance list and 6 then read that highlighted?</p> <p>7 A. Sure. So basically this is a 8 journal from the Female Pelvic Medicine 9 Reconstructive Surgery, which is the journal of 10 American Urogyne Society, and the authors -- this 11 is the one that we had quoted Hanson saying that 12 similar to other reports fewer than 50 -- fewer 13 than 25 percent of women were referred by the 14 surgeon that placed their mesh.</p> <p>15 This may contribute to the continued 16 use of these products, as the physicians placing 17 them may not be fully aware of their own mesh 18 complications.</p> <p>19 Q. And when was that article published?</p> <p>20 A. That was I think in 2014 or '15.</p> <p>21 Let me look. Ah, there we are. 2014.</p> <p>22 Q. And could you identify this article, 23 when it was published, and what journal?</p> <p>24 A. So let me just see. So the authors</p>	<p style="text-align: right;">Page 164</p> <p>1 the author?</p> <p>2 MS. THOMPSON: Lee.</p> <p>3 MR. OTTAWAY: Zimmer and Lee.</p> <p>4 BY MS. THOMPSON:</p> <p>5 Q. Is nerve pain contained in the 6 instructions for use for the TVT-O?</p> <p>7 A. The nerve injury is, but not nerve 8 pain.</p> <p>9 Q. And -- well, why don't you get the 10 IFU out.</p> <p>11 A. Let me look.</p> <p>12 So basically punctures and 13 lacerations of vessels, nerves is included.</p> <p>14 Q. And is that referring to punctures 15 and lacerations at the time of surgery?</p> <p>16 A. Yes, may require surgical repair.</p> <p>17 Q. Can you fix a nerve that's -- can 18 you repair a nerve that's punctured or lacerated 19 at the time of surgery?</p> <p>20 A. Major nerves, yes, but not the 21 obturator nerve.</p> <p>22 Q. And how would you know that a nerve 23 was punctured or lacerated at the time of 24 surgery?</p>
<p style="text-align: right;">Page 163</p> <p>1 here conclude that one of the things they say 2 that there's a management gap in the treatment 3 outcome related to management of mid-urethral 4 sling complications and this was in information 5 in health care. And let me see. It was a review 6 by Lee and Zimmer. And let me just see.</p> <p>7 How do you move the screen in? I 8 need to look at the cite.</p> <p>9 I need to look at that cite.</p> <p>10 Q. It's in Expert Review of Medical 11 Devices.</p> <p>12 A. Okay. Yeah. So the Expert Review 13 of Medical Devices in 2015.</p> <p>14 Q. And could you read that highlighted 15 part of that?</p> <p>16 A. If I can get to there. Was that the 17 one I just -- this one?</p> <p>18 Q. Yeah.</p> <p>19 A. Okay. So there's a knowledge gap in 20 treatment outcomes related to management of 21 mid-urethral sling complications.</p> <p>22 MS. THOMPSON: All right. That's 23 all.</p> <p>24 MS. FISCHER: Excuse me. Who is</p>	<p style="text-align: right;">Page 165</p> <p>1 A. The patient would make -- feel 2 numbness or excruciating pain.</p> <p>3 Q. Do you remember being asked 4 questions about warnings earlier by Mr. Ottaway?</p> <p>5 A. Yes.</p> <p>6 Q. Are warnings, the warnings of risks 7 and adverse events, part of the regulatory and 8 legal obligations of a medical device 9 manufacturer?</p> <p>10 MR. OTTAWAY: Objection to form.</p> <p>11 THE WITNESS: Yes.</p> <p>12 BY MS. THOMPSON:</p> <p>13 Q. Is knowledge of warnings important 14 to physicians to decide on the best treatment 15 options for a patient?</p> <p>16 A. Yes.</p> <p>17 MR. OTTAWAY: Objection to form.</p> <p>18 BY MS. THOMPSON:</p> <p>19 Q. What is informed consent?</p> <p>20 A. The informed consent is the 21 discussion we have with the patient to gain their 22 permission to do any procedure for them and let 23 them know of the -- how the procedure is done and 24 how the complications or adverse events may be.</p>

<p style="text-align: right;">Page 166</p> <p>1 Q. And is this something you do as part 2 of your practice on a regular basis?</p> <p>3 A. Yes.</p> <p>4 Q. Are warnings part of a doctor's need 5 to be able to obtain proper informed consent from 6 patients?</p> <p>7 A. Yes.</p> <p>8 Q. Do you have an opinion as to whether 9 a doctor can obtain informed consent from a 10 patient if he or she is unaware of the known 11 risks associated with a particular treatment?</p> <p>12 A. They cannot.</p> <p>13 MS. THOMPSON: That's all I have.</p> <p>14 FURTHER EXAMINATION</p> <p>15 BY MR. OTTAWAY:</p> <p>16 Q. Doctor, you were shown some 17 literature. I'd like to lay four things in front 18 of you and ask if these are on your reliance 19 list.</p> <p>20 A. It was -- all right. Let me just 21 look. Let me ascertain because a lot of these 22 people publish a lot of different. So that's 23 from 2012.</p> <p>24 (Reviewing document).</p>	<p style="text-align: right;">Page 168</p> <p>1 you to read the conclusion of the authors in that 2 study.</p> <p>3 A. So this is a paper by Teo from 4 Journal of Urology. Okay.</p> <p>5 "Short-term cure rates at six months 6 are similar for the two procedures. TVT-O 7 resulted in higher levels of postoperative leg 8 pain. Also these problems were transient. Our 9 findings are similar to those in other studies 10 comparing retropubic and transobturator tapes. 11 The two procedures have a high cure rate with a 12 low rate of complications."</p> <p>13 Q. Doctor, let me hand you what I'll 14 tell you is "TVT-O for the treatment of pure 15 urodynamic stress incontinence efficacy, adverse 16 effects, and prognostic factors at 5-year 17 follow-up" published in the European Urology 18 Journal in 2013, and ask you to read the 19 conclusion in that study.</p> <p>20 A. So I think this was the one that was 21 in the reliance list. So -- so this is a 5-year 22 follow-up. Let me just see whether they are -- 23 maybe it's mislabeled. 930.</p> <p>24 I mean, I have seen this study, but</p>
<p style="text-align: right;">Page 167</p> <p>1 MR. OTTAWAY: Let's go off the 2 record while you look and see, Doctor. I 3 don't want to burn the record time here 4 while you look.</p> <p>5 THE VIDEOGRAPHER: Time now is --</p> <p>6 THE WITNESS: For the first one 7 that you have I don't --</p> <p>8 THE VIDEOGRAPHER: -- 2:05.</p> <p>9 We're going off the record.</p> <p>10 (Recess - 2:05 p.m. - 2:14 p.m.)</p> <p>11 BY MR. OTTAWAY:</p> <p>12 Q. Doctor, we went off the record a 13 minute ago so I could show you a couple of 14 articles and ask you if they were on your 15 reliance list.</p> <p>16 A. Uh-huh. Yes.</p> <p>17 Q. I think you discovered they were 18 not; correct?</p> <p>19 A. One of them was not.</p> <p>20 Q. Yeah. So let me hand you a 21 randomized trial of tension-free vaginal tape 22 from the Journal of Urology published in 2011, 23 and this is one of the publications I asked you 24 about early on in your deposition, and just ask</p>	<p style="text-align: right;">Page 169</p> <p>1 there --</p> <p>2 Q. I just asked you to read the 3 conclusion of the study for the ladies and 4 gentlemen.</p> <p>5 A. So the page numbers are not the same 6 and so okay.</p> <p>7 So basically what they're saying is 8 that the:</p> <p>9 "TVT-O implantation is a highly 10 effective opinion option for the treatment of 11 women with pure SUI showing a very high cure rate 12 and low incidence of complication after 5-year 13 follow-up."</p> <p>14 And that was Serati, pages 872 to 15 878, 2008. '13.</p> <p>16 Q. And, Doctor, I'll hand you, finally, 17 what is an article from the International 18 Urogynecological Journal of 2014, which is Seven 19 years of objective and subjective outcomes of 20 trans -- say that word for me again.</p> <p>21 A. Which one are you reading? 22 Transobturator.</p> <p>23 Q. -- transobturator (TVT-O) vaginal 24 tape." That's what we've been talking about, and</p>

<p style="text-align: right;">Page 170</p> <p>1 ask if you would read the conclusion of that</p> <p>2 study at page 224.</p> <p>3 It starts "In conclusion." It's the</p> <p>4 last paragraph of the study.</p> <p>5 A. Okay. Yes. So:</p> <p>6 "In conclusion, this study supports</p> <p>7 the long-term TVT-O outcomes using a</p> <p>8 retrospective design in a real life cohort. It</p> <p>9 shows that the TVT-O procedure provides for high</p> <p>10 long-term efficacy clinically meaningful</p> <p>11 improvement in patients' quality of life and an</p> <p>12 excellent safety profile. However, women with</p> <p>13 central compartment prolapse in those undergoing</p> <p>14 concomitant vaginal hysterectomy had a higher</p> <p>15 risk of subjective failure. These results could</p> <p>16 therefore be useful to clinicians for</p> <p>17 preoperative consultation."</p> <p>18 Q. Thank you, Doctor. That's all I</p> <p>19 have.</p> <p>20 A. Thank you.</p> <p>21 MS. THOMPSON: I have one more</p> <p>22 question.</p> <p>23</p> <p>24</p>	<p style="text-align: right;">Page 172</p> <p>1 CERTIFICATE OF COURT REPORTER</p> <p>2 UNITED STATES OF AMERICA)</p> <p>3 COMMONWEALTH OF VIRGINIA)</p> <p>4 I, DENISE D. VICKERY, the reporter before</p> <p>5 whom the foregoing deposition was taken, do</p> <p>6 hereby certify that the witness whose testimony</p> <p>7 appears in the foregoing deposition was sworn</p> <p>8 by me; that the testimony of said witness was</p> <p>9 taken by me in machine shorthand and thereafter</p> <p>10 transcribed by computer-aided transcription;</p> <p>11 that said deposition is a true record of the</p> <p>12 testimony given by said witness; that I am</p> <p>13 neither counsel for, related to, nor employed</p> <p>14 by any of the parties to the action in which</p> <p>15 this deposition was taken; and, further, that I</p> <p>16 am not a relative or employee of any attorney</p> <p>17 or counsel employed by the parties hereto, or</p> <p>18 financially or otherwise interested in the</p> <p>19 outcome of this action.</p> <p>20</p> <p>21</p> <p>22 Notary Public in and for the</p> <p>23 Commonwealth of Virginia</p> <p>24 My Commission expires March 31, 2018 ID - 126014</p>
<p style="text-align: right;">Page 171</p> <p>1 FURTHER EXAMINATION</p> <p>2 BY MS. THOMPSON:</p> <p>3 Q. Dr. Shobeiri, did you consider and</p> <p>4 critically assess literature that was both</p> <p>5 favorable and unfavorable to your opinions?</p> <p>6 A. Yes, I did.</p> <p>7 MS. THOMPSON: That's it.</p> <p>8 MR. OTTAWAY: You have the right</p> <p>9 to read and sign this deposition,</p> <p>10 Dr. Shobeiri, and you should consult with</p> <p>11 Margaret and see what you wish to do.</p> <p>12 MS. THOMPSON: You will.</p> <p>13 THE WITNESS: Thank you.</p> <p>14 THE VIDEOGRAPHER: The time now</p> <p>15 is 2:19. This deposition has concluded.</p> <p>16 (Signature having not been</p> <p>17 waived, the taking of the deposition</p> <p>18 concluded at 2:19 p.m.)</p> <p>19</p> <p>20 * * *</p> <p>21</p> <p>22</p> <p>23</p> <p>24</p>	<p style="text-align: right;">Page 173</p> <p>1 INSTRUCTIONS TO WITNESS</p> <p>2</p> <p>3 Please read your deposition</p> <p>4 over carefully and make any necessary</p> <p>5 corrections. You should state the reason</p> <p>6 in the appropriate space on the errata</p> <p>7 sheet for any corrections that are made.</p> <p>8 After doing so, please sign</p> <p>9 the errata sheet and date it. It will be</p> <p>10 attached to your deposition.</p> <p>11 It is imperative that you</p> <p>12 return the original errata sheet to the</p> <p>13 deposing attorney within thirty (30) days</p> <p>14 of receipt of the deposition transcript</p> <p>15 by you. If you fail to do so, the</p> <p>16 deposition transcript may be deemed to be</p> <p>17 accurate and may be used in court.</p> <p>18</p> <p>19</p> <p>20</p> <p>21</p> <p>22</p> <p>23</p> <p>24</p>

S. Abbas Shobeiri, M.D.

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1 ACKNOWLEDGMENT OF DEPONENT
 2
 3 I, _____, do
 4 hereby certify that I have read the
 5 foregoing pages, and that the same
 6 is a correct transcription of the answers
 7 given by me to the questions therein
 8 propounded, except for the corrections or
 9 changes in form or substance, if any,
 10 noted in the attached Errata Sheet.
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Subscribed and sworn
 to before me this
 _____ day of _____, 20____.

My commission expires: _____

Notary Public